#### Vikash Polytechnic, Bargarh

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# Lecture Note on Introduction to IT System

Diploma 1<sup>st</sup> Year

**BRANCH-CE, CSE, MECH, EE** 



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Senior Lecture

Computer Science & Engineering

### UNIT-I Internet skille & compater have

## Basic Internet ckille

- information & services.
- mobiles etc to exchange info. & sonvices.
- The internet are called " internet civille".

  What is Internet?
- network of hetenogeneous types across

  the globe.

## Application of the Internet

1 communication:

y E-mails

Montine messengens are populare fore neal

er voipevoice over Internet protoiol audio & video conversation takes place

2) E-commence ( Electronic ):

Product & Services.

- (3) Stonage & file Transfer:

  1) The viern can send & neceive/stone

  Files of different types (clouds)
- (4) Live streaming & podcasts:

  Suseme can send their live video & audio to large group of people in a neal-time.

  manner.
- (5) Mews, Enterclainment:
- D collaboralive tasks:
- (4) Research & Learning activities
  - (8) Interractive Craming
  - 1 Social Networking
  - (10) Job honding
  - 1 Navigation & tracking : 1111.

Internet Basics

Few commonly used terms fore the internet

- 1) would whide which?
- Via URL 101 on resources are hosted

2) Domain Name His an human underestandable unique name on the intennet to identify a companiere system ore mesounce. HALL : 11 mmm. examble . Plad . row / Hows domain top-level path priotoiol Sub

3) URLCUNIFORM RESOUTER LOCATOR)

er 14 is known as web address

cy it is a unlave identifiere of a web rusoume with aspecification of how to acces & thom where to access.

4) HTTP ( Hypere Tex+ Transfere Procotocal) cr 1+ is a set ob notes that detine the way, how data transfer over the web.

stiller 229115 of here is til 4

5) FTP( File Transfer Protocol)

4 1+ is a sect of notes that detine the way how data triansfer overe the internet.

6) Hyperlink:

1+ is a world, Phriase, on image that

Metern to another data, can be bollowed by the were by clicking ore taping.

7) Buomser :

1+ is an appl program with a vier interibace to display & navigate webpages.

Overc www. - reg chnome, Satarii, operca, moxilla
etc.

8) Webpage:

collection of documents designed to view

a) Meprete : mep promoner.

by a common domain name.

10) Search Engine into. Seanching complex siw that provide into.

Jeg - Google, Yahoo, Baidu, Mavere etc.

11) ISP (Internet Service Provider)

c) An 12p is a company that provides Enternet access to other companies orc individuals.

- Herrage Luow T electronic yearle 40 auotymersage Luow T electronic genice to anotymers E-way (Electronic Mari)
- 13) podeast.

  14 is a web resource available on
  the internet that contains audio into.
- IN) Eslectipe
  Every ento available on the internet
  have a caretain bonnat & type which is
  understood by their tele type.
- > Fi intonmation can be in bonn of downers, audio, video etc.
- 15) Dowlnload:
  14 is the prioress of copying data overe.
  The internet broom I device to anothere.
- 16) UPIDad 1+ is the process of transferring date Prom 1 device to another.
- 14) DUIC Domain Mame System)

  14 Arranslates human underestandable
  domain (www. n.k. 90v. in) to machine Madable

IP addruss (203.129.202.69)

18) TEPITP CTHONS mission control protocol / Intering

Protocol) H is a set of mules that govern the unking of a computere system to the internet.

19) Modern (Modulatore Demodulatore)

4 14 is rusponsible to convert disetal. data of a computere system to an analog signal overe telephone line & vite · DZTISV

20) Nertwork Equipment

These are networking HIW heavired bore intericonnection & commo in a computar ntw.

Teg Bridge, Repeater, Hub, switch, nouter etc

21) cloud computing:

14 provider computer necourcies over the internet as pere the demand.

Understanding - A Bhomserc of internet bollows client server model > in this model when a client machine seeks some service, et boum a nequest messagel HTTP) nequest) & send et via client-side buoduan -to vim -lomands the tenhen. on the other side when a request approaches the server grants on denies the Medner of noun of tresponse werradie > A briowsett is a client side program to Seanch & retrieve into brom www a) broogle chrome - 2008 b) Michosoft Edge - 2015, windows 10 c) mozella -Pirabox - Lep + 2002 d) Opera - April 1991 ( both mobile & e) Satarie - n'eveloped by Apple Inc & Es not complete open source bnowsers. January 2003, as a bout of Wall of.

ATH PARTY OF THE P

Houre duktop ore tackbare.

To be connected to the internet we have

To start on launch web browner funct.

Just click on the icon availtable at

Youre duktop ore tackbare.

- DRT ou mep agquer que pare to intert
- 3) When a webpage is loaded it may show the Hittle.
- a) A browsere window has many controls
  on it fore a better web expersione &

  Sunfing. Forward button ( leter armow) &

  Backward button ( let I to armow) & provided

  to go back & bouth bet the web pages.

  These are combinedly known at Navigation

  button.
- 5) A webpage may comprise many parets & Sections to prusent into. It any parets & nort toded loaded well then the Retrush button is priorided to reload the webpage & update the istor

- b) During a wholiste ceamed we may durk on vanious hypenlinks to find more rulated into. Chypenlink may be opened in the same window on new tab)
- Len mephade they me want ober a um tap my good the touthol.
- marking & managing Frequently viteting webpages with the bacility of book marking.
- marking,

  a) whe can may customize et & add

  additional Functionality by installing

  extension.
- controls on the night upper conners & close somether some promises minimizes on the conners of the conners of
- 11) charamet & buonser & buonge.

  To the machine of near refle de accuses

  giftement machine of near refle de accuses

  giftement buonser & barrmouge.

  Strome puoment & barrmouge.

- 13) chisome prioritere par prioritere mitomis. & contriol section via an ellipsis ":"
- 13) We can access many bunctionalities wa right-clicking on the webpage.

common Browsers Features 1. BOOKMarck:

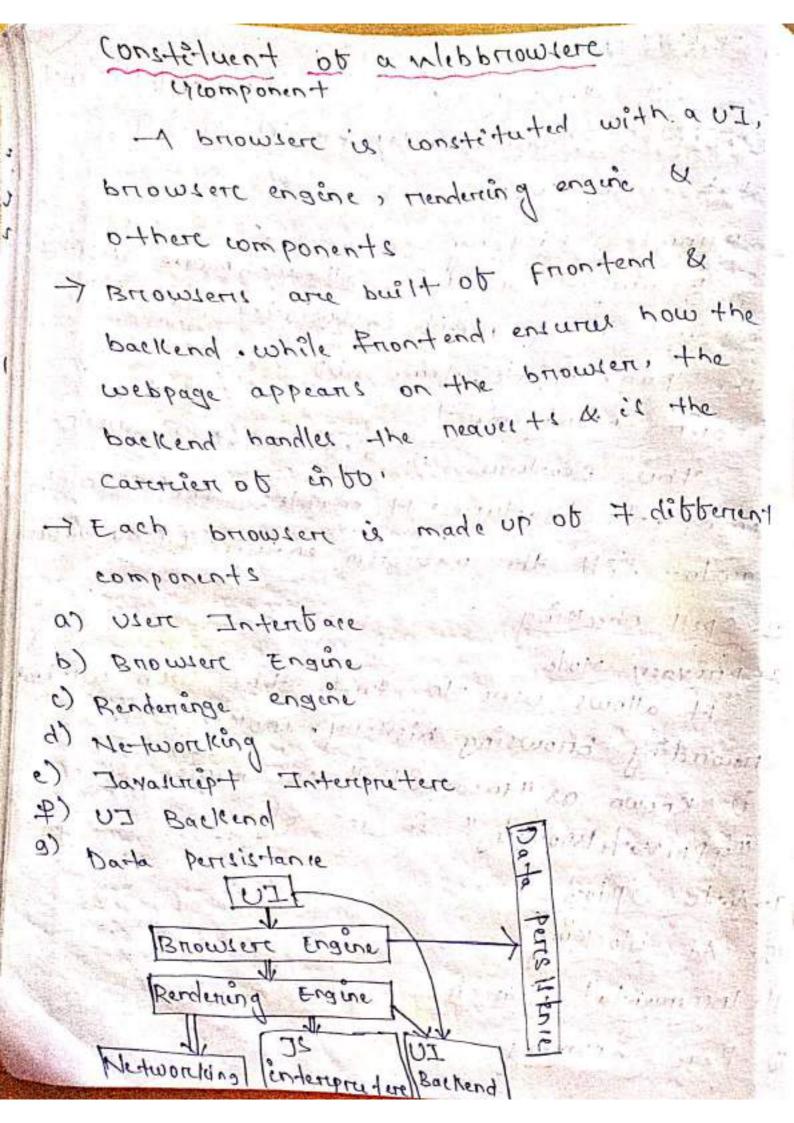
It is the process of storing URL bore Future restrieval. With this teatures User can B-torred & manage web address ob brequently

2. Download Management: This is an inbuilt some tool born browsers that allows the user to manage all downloaded . File. 1+ dieplay files in ないけって かいシャリード chronological order.

3. Pareword Management:

Browsere Provider tacility to storce viennames & passwords of weblites that Meautication. a time Vet 2-19011. deary2 of

4. Tabbed Browsing phomie clipperient 1+ allows oreics to on dibtercent websites simultaneously tab windows 5. Browser History BLIOMTEL can T-JOLIE all mepbades NiTigled py :+12 usere mistr associated data like the page etetle otemes of viset etc. This beature is also known as auto-P. FORM Managemen + complete beature. It enables the user to auto- Pell the webforem entrice of a user. 7. spell checking 8. Privacy Mode It allows usen to sunt the web without neverding browsing history, cookies, This is known as "Intogratio" en chrome & "inprivate Browsing" in me Edge a. Auto Update 10. - My placking 11. Incremental Search 19. bode Kooward



14 allows end-viens to interact with a) usere Interetace all visual elements available on the webpage. The visual elements include the addressbarr, home buttom, next button etc. b) Browner Engine bet the UI & the Hendening engine. help webpages toad quickly & smoothly, white This component is necessariable bore mendenise c) Rendering Engine a specific webpage neaverted by the ouser -> 1+ interprets HTML & XML document along 1 with images that are styled on boumatted oring cer. d) Metworking This component is responsible bore managing No calls standard protools like HTTP orc

- e) Javascreipt interepretere

  1+ is responsible bore Pansing & execution,

  the Js code.
- This component uses the user interitare method of understying os.
- 9) Darta storage/Peristance

  A web browsere needs to store various

  types of darta locally.
- 29 cookies, websal, Indexed OB etc

Search Engine

1+ is a 21 m extern that Priorides

hypenlink to mebpages & other nelivent into.

on the web in rusponse to a men's

queny.

The user esp a avery within a webbnowser on mobile app & seanch neceste are obtained that of hypersisks, accompanied by textual summaries & wage.

7 eg Google, Vahoo, Bing, Baidu, Vandex, puckduckgo etc Types of Web searches Web Seancher avenier ane closséféed 50 40 3 41 bes 1. Navigational: viens may input some seanch kingwonde not bon seeking diniet en po. apout the entened text. 2. to bournantional: -> -A navigational geanch queny indicates the over a looking to find a pantiular website on find pareticulare company ore; briand.:

briand what they are searching fore but may not known how to get. 7eg Youtube. 2. In boundational: -> lot indicates the users is hoping to find into. on a particulare ropic. -> 29 How to bake bread . ,

What is the capital ob Bnaxel?

3. Transactional;

it indicates the over is cooking to complete a transaction & this will usually wear puying a product our paying Pontina senvice.

-> These searches can be quête specific such as "buy plays tation I".

How do Leanth Engines Work?

- > Search engine ams: to provide the most nelevant search nesults in minimal time to there evens.
- > A search engine generally periboning 3 Functions.
- 2. crowling: can the Search ensure find your

It is the process used by search engine We b creamblens C bots on spidens) to visit & download a page & extract cts looks in onden to discover additional Pager.

2. Indexing

engine organize into betone a search to anoble super tast nuponies to queries

3. Ranking

The sounch engine manking of a website, on URL, meters to its spot on the seamen engine mesults page

How to Seanch the Web?

To pentonm a search we will need to navigate to a search engine in our web browsers. Hype one on mone keywonds - also known as search terms then priess enter on your knywond.

Google Learch Symbols, openators & comman

1. Quotation Marks (" ")

Use quotex to seanch born an exact would

This is useful when seanching bore a specific phrase.

2. Minus 2:8n(-)

Exclude specific wonds from yours

Search

1 eg dolphins-tootball

3. site openaton (site)

Restrict your Search to a specific site on domain

-) eg site.com climate change

4. OR openation (DR)

Several wonds.

-> eg menewable energy on solan on wind

5. -Astemisico+)

ore wildowed term.

- 1 eg langut + + in the would

6. File type openation (file type)

Restrict nesults to a specific bêle

-> 29 file-type runiwable energy policy

of Related openatori (nelated) Find sites melated to a specified web page. yea nelated com 8. mond openaton ( concent) (in tetle) Find Pages with a speci fic would on wonds in the title eg - in tê tle triails 9. Inual openation (inual) Find Pages with a specific would one worlde in the UPL enunt forecast 10. calculatore use google search as a calculatore bon anithmentic openations -> eg 23c + 18 11. Unit converter convert unite of measurement directly through google seanch -> eg 50 pounds to kilognams

Cropple Advanced Seanch

I. The user has to open a web browsen & navigate to the google seanch engine.

3. Type their Seanch term in Seanch box

3. Usens can view survey nesults based on various provided categories like news, images, books, videos, maps etc.

U. For each such category, Some additional

4. Force each such cartegory, some additional

70 02 Description of

11 google. com / advanted - Seanch "

Meb Portal is a web-based platform that collectes ento. From ditterent councies ento a cingle UI & presents viens with the most relevant ento. born their context.

-Anlarceness about Digital India Pontals

The government of India has developed many port-tals & IT based in brias trive tource to empowere its with zens.

Those portale in which senvices

are prisented & updated by the central

government & whose aim is Nation wide are

called National portals.

what is digital India?

Digitial India is an initiative launched by the India government in 2015 aumed at thank the India government in 2015 aumed at thank to coming, into a digitally empowered thank torching, into a digitally empowered coclety & Knowledge economy.

The priorium bouses on increasing internet connectivity, improving disital intractivitures of priories of priories of priories of priories of priories of disital internet of priories of online cenviles to litizens.

Key vension of Digital India

- 1. Digi-tal intracture as a cone utelity
  to Every citizen
- Le Ensuring high speed entennet access borc
- ii) providing a unique digétal identity i e litelong, online & author ticable to every

ci-tizen.

ci tizen.

ciii) Enabling mobile & banking access

en tens.

centens.

2. brovennance U senvice on Demand

i) Making all government cenvites available

ii) Seamlersly integrated services accross
department & Junisdictions.

iii) Enabling electronic & cash less, binancial

3. Digital Empowerment of citizens.

e) Universal digital literariey

ii) Easy access to digital resounces.

iii) Making all documents & centificates availed

in) citizene not required to physically cubmit

Prill

pillans of Digital India Progr.

T. Buoadpand Highwards: Developing broadband intrastructure accross munal & unban areas to ensure

righ speed entennet access.

2. Universal -Access to Mobile connectivity

Ensureng mobile connectivity in all unioversed arrea on the country to enhance communication & access to senvices

3. Public internet Access Propriamme Establishing common service centres (esc.) & post obtices as multi-service centres bore delivening digital services.

4. E-Governance - Retoring government through

technology in a resident and a resident and district Improving delivery of government convicu by making them available online & automating moursplans.

5. E-Knarte - Electronic delivery of services Transforming the delivery of various govet. Services electronically across Sectors

Such as health, education, agriculture & Justin.

b. Information for -All open access to government dark & documents to priomote transparring

U citizen engagement.

-1. Electrionics Manutacturing

promoting the manufacturing of electricity within India to meduce dependency on import A abusease emblorment.

8. LL for Jops creating training programs to divilop PT skills & provide employment opportunities

9. Early Harvest Programmel implementing thout-term projects that can delivere immediate benifit Plattonin bore messages, biometric attendance, 1. Digital India pondale ( intraction with

a) AABHAR (uidai.gov.in)

b) (DE-17 ( cor- cot. in)

E) CERT-IN Court-in, ons in) -+ computer

d) esce ( cec. govern) - remputer Service conten

e) exper Swathta Kender ( rybenswath + takendra govi

2) Digilocken chigilocken. 30v. (n)

a) DISHA ( nolmin)

h) Digitize India Platform ( digitizandia. acyin)

ESIGN Grea. gov. in)

1) Esco- micoul in cois govern)

K) MOUT E-MARKET PLACE C game gov. in)

1) IRCTE Cincteriorin)

m) JEEVAN PRAMARN ( ) (Nonpramaan-gov in)

(nivop. huoto ITAGHDAM (n

2. Digital India Portals (Service Bosed)

a) SUUTAMYA Carressible india-govin) BHARAT

HARMYNAN.

b) BHIM ( bhimupi , ong in )

() Digital - Alime (charpetal-inicin)

d) E-PANCHAYAT (epanchayatin)

- e) + HOLPITAL ( chaipt to linitich)
- F) F-PATH
- F) E-PATHERREAC equathshola.nic.in)
- (in. voe in means 2 ) x 4 A A A March ( )
- 3. Digital India pontali (Empowerment)
- a) BPOSCHEME (ibps. s-tpi in)
- р) илскол (шадол. cv)
- e) pMKYY (pmKyyot bicial.ong)

State Pontal The state portal is a nodal sounce of into about a fanticular state & its various department & their associated sometime orannately & comprehensively.

Features of state Portal

- 1. 1+ provider single point into access to echemes & Services like health, aggniculture, ed", employment, toxus, pension etc.
- 2. It transparently provided into a hilps in Meducing connuption.
- These are part of e-governance + Mason want

4. 1+ makes government department How to Navigate state pontal 1. 10 to URL https://knowindia.gov.in/s-tate-ut+1 ore www.india.govin | india-glore / & tates-india

college Pontal

It is a webpontal that provides is to. nelated to different 2 takeholders of a college Like 840 Eurose + students & their bamilies, alumni network, baselties & & tatt pensonals of the college , new aspirants condidate who with to get addression in the college & history officials etc.

- > with the help of this intentage college or educational institutes can manage muored of their student in a systematic manner.
- -> tollege portal plays ar importal in providing up-to-date into about college related work a activities like departmental noting into about Placements & exams. bees due date. eta cunniculum detalis etc.

catigorite into static en -> college port-tal can be Dynamic For-fulc.

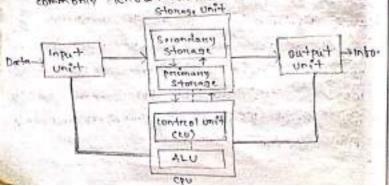
Changing anditromnotas

How to Navigate tollege for

Drinita Oreitta-vikash-tom

computers System computers are not only used in commercial & business use but also used in various bield like health, education, launching satellite

-> computers are available in dibbening siver & have different capabilities of proceeding commonly known as configuration.



contral provising unit ((pu)

-> con = -Vrn + cn + wn

ALD - Muldhourtie , & Logical Unit

cu = contriol unit

MU = Memony unit =

of CPU is also known as brain of unputing

to can be the place where actual producting of data takes place on the

priogriam .

- con in reportable bon:

Denouning data

ii) Tunning if p data to output data.

a) Microphotellare 1 it is a silicon chipswith ALU, night-tencounit, control unit:

-> The micropronunce is capable of conveying out a lange no pt fun like necessing dates

prioressing data & stoning the negults & outputting the required result.

-> 14 has reportability to personen ALU, opena floor & tonnerted to it like strangemos eentriol the memory, its. Its device etc.

- 6) ALU C-Antithmi-H( & Logic unit)
- a 14 per borems all the artithme fit & logical operations bor the computers of Addition, Substitute tion, temporal, complement, shift .te.
- ALU is made up ob 3 parts
  - i) A diere where actual calculations take plan
  - ii) Register which storms in to temporarily. in) - Accumulators in which the intermittent
    - newlife of the colculation are Kept:
- () control unitero)
- of 1-4 con-triols all others units in the compater
- The to instance the importations to thorse the darla ables necessing 24 from the Uler.
- -> 1+ 100-tools the blow of data distribution
  - boom stonage unit to ALU:
- it also conduct the blow of negalite from the the ta storage oriting
- -> ev is the contral Harryour system of the impuriese.
- d) solowings which Memory unit The int-term tions & data given to the compaters & are stored in the memory

- on stonage unit.
- -> 1-1 is also used to stone intermittent mealts Si into
- The smalles + unit of Memony is called a Bit. A bit can have the value tore orwhich is known at binary value.
- -> CHOOL OF SPETT the polle of BAge.

unit 19	Jugant.	capacity of
B1+	6	Tou ocus ou opp
Byte	В	86245
Kilobyte	KB	7030 BA 46
Megabyte	MB.	10911KB
chigabyte	018	IBZUMB
Tenaby te	118	1024 618
perta by te	PB.	Br US 01
Exabyte	EB	1024 10
Zittaby te	≥R.	LOZUEB
Yoth byte	VB.	[024XB
Briono-to byte BB		109AAB
Geor Byte GIB		102UBB

Types of computers Memory

-> The storage unit of the computer holde data & in so interior what are entered through i/p unit, betone they are procused.

- > 1-1 Processives the intermediate which betores there are send to the output divites.
- -> The soloring is devices and characteristical into 2 -Wper
- a) Primary Mimory
- -> 17 is also known as main memority on interinal 3-tongs because it directly accessible by the CPU-
- -> Due to He tast arms mate & cinust complexity, it is expensive as compare to Sundary memory . . . . . . . . .

-> - x computers can't work it, though no

primary momony installed.

- A RAM. ROM & Coche Mirrory ares the example of primary minory.
- 2) Random Access Momony (RAM)
- -> 14 is a "How that temporanily Horse date Pringram .
- -> 4 is the bosters paret of main memorial which can directly accessibly the cov.
- -> 14 meads & consider progressed tended the computer is switched one

#### SPAM

- DRAM
- -> static Random-Arress -> Dynamic RAM Memony +
- -y tot solorus the doorter -> 14 solonus data as pour or and long at the powere amount of time lating the data even Hough Power supphy on
- 12) ROM cread only Memory)
- -> ethe programs s-toned in Day and Parmanent be are not lost when the owerest is switched oft. so it is nonvolatile memony.
- -> Rom has bollowing contagorcies
- · promermonable Read only Memory)
- + It can be modified only once by a user.
- · EPROMLEnasable & PROM)
- + Dorla can be estated at well as Pring Homenof
- > 1-1 can e-lorce data bon a min oblo-20
- To enote & repriogram EtROM, the West needs to Pass un lights bore yourn

EFFROM ( Electrically EPROM)

H allows data to be errosed bying high voltage electrical change -

m) cache Memony

- + 14 is also called cache supplementary memory exerten that dimportantly 2-tones breavently used instructions & data bore quietere processing by spot
- cache holds a copy of only the most presently used super our busham rager 2-loned in the main memony.

b) Suondary Memory

- > 1+1 is a pareman ent type of memory in a compatere that holds large amount ob da-la.
- -> This is an external memory that testiment ditterent stonage media on which darka & priograms can be seved fore long term.
- -> 14 is not dimethy accessible by the

:) Hand Disc .

ii) compact Disc

iii) pendneve

ROM

-> Random - Access Memory -> Rend only Memory

-> Exbousine -> for Expousing

- vola-12 le -> vola-tèle

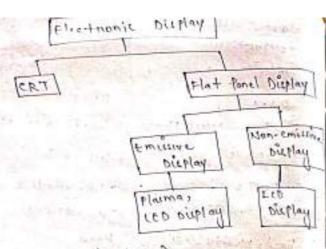
-> High capacity - -> Low capacity

-> Read, molify & delete -> Read

Display

-A display is an old device to prosent into. in visual bonn.

- to 1+ may be an extendal monitore on built in serious with the digital divise eg -. compaten, mobile, ATM etc
- -> A compatere display is simply the series that will give you, your video of from -1 be comparten. contribution to record



etypus of buplay)

- 1. (RT (cathode Ray Tube)
- was a pacturing of television terreen.
- -> cet is a vacuum tube containing an electrion gun at one end & a thursdant server at another end.
- 2. Let C Liquid engr-tal buplay)
- -> 1+ resterred to as Alat come display.
- 3. LED ( Light Emitting Diode)
- U. DIPE Distital Light procusing)
- 5. Pluma Monistons

6. DIED CONGANIC LED)

4. Touch Screen Monitons

Keyboards ...

14 is a primary Enput device used

- It is used to input data instruction
- + it is composed of buttone used to smate
- The Hopmort now of the keyword have fund
- 2. character Keys O-q, Tabs. caps.
- -> These Key are used to type letters, purctuation & other characters
- otal, +1+ 112, HA. HA.
- 4. Noviga-lion Kuye

  This is also tenmed territor ton-trol

  Key.

4 14 is used to navigate tunion in any dinection.

> 19: leb+ c ←), reigh+ (→), rep( +). & downce) Home, end.

5. Nummic Kuypad

Numeric key of keypad 0-9. Numberki

-, +, 1, + and bil ky

P. SAT-tew commany Red

- i) potse Screenshot of entire screen
- ii) Break / Pouse: terminate the program
- in) the a dialogue box.
- iv) Enter: Terminate a fanagraph & neappost bore a new line
- 4 2:42 (V
- Union "1990 trate: 1 wohnibu (in
- vii) Store Bare: Store bet words doning
- viii) Backspace: Enase the text to the litt of the europit pathion.

It is a handheld iff device that controls the pointer in a but.

-> 1+ is the most widely used pointing device be can move & select texticions, Piles & bolden.

-> some basic operation of mouse one

1. Point : To aspecific tocation on a terreso.

a. click: leb4 mouse button

3 · RIDENT CLICK

We Double click

5. brief be Driet

b. Sinoting

Hand Die K Drive

It is a nonvolatile Memory.

-> HOD stones Os files, appl problems, media & Other downerts

-> 1+ uses a dick & magnetis to write data on the diek permanently.

-> HDO can be used to storce be nativise digital into using platter one notating disk.

-7 Darta can be need in a standom arrest monney.

companent

1. Platterie -A HOD consist circulare disk called platter sealed with container which stone data inside the hand lisk in the tonm of AL & OC -

2-spindle It is used to place the platter in position be modate as it meganics.

3. Read/write arm It is used to control read/write heads

or by is used to convert the magnetic suntare into electric cumunt.

It is used to control meadlionite and "4 - Actuatore treamstern darta to and from the platter.

HDD Size : Oldere hand drive had 1-tomage Of Sevenal 100MB -to sevenal GIR.

> Newer hand drivet have thorage size of Several 100 bis to several The.

(2012) wind state hilo?

Modern computers are now using CSD draives as the primary storage device A HOD are very slow as company to SSD companison but Hon & ELD

1. SED & HDD are both Hand dick drive

2. SED has high nead wrette persborrmance bore mandom be evacuatial data methioval as companied to HDD.

3. SID is now more populare as compared to HOD in duktor W Laptope.

4. cen uses the newest way to nead write data using tacking thips in a smit whereas HDD were magnetic properties to mead write dato.

#### Othere perciphenal Divited

-A periphenal device also called an auxiliany device is any connected device that provide a computer with additional beatures.

-> percephonal is commonly divided into 5 Kinds input device, output device & atomage device

a) Input Device

There are used to send darla one command to the compaten system.

1. Scannere 2. Ban Lode Readers 3. Web cam 4. Microphone 5. Digital comma b. Light pen 7. JOYLHICK 8. Graphic Table 20142.9 10. Touch Scruen 6) output Divices in Land miles at priorides processed data saved on the to the west. computer as oip. 1. Projectore 2. printere 3. Speakere U. Briaille Readure 5. Plotter de 6. Ginaphics cand 7. Lound cand c) Stonage Device processed by the 1-1 s-torus darta computer, HDD, FD; pendrice, memory could. COLOND

#### Vikash Polytechnic, Bargarh

Vikash Polytechnic
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# Lecture Note on Introduction to IT System

Diploma 1<sup>st</sup> Year

Branch-CIVIL, CSE, MECH, EE



Submitted By:- Ms. Monali

#### Patel

# Senior Lecture Computer Science & Engineering

# OPERATING SULTEM

#### Sob-tware

- instituction) that allows the sens to penboum a well detined function on some specified tall.
- > 1-t is responsible born directing all computers
  nelated divices & instructing them regarding
  what & how the task to be Pentonmed.
  Types Ob sobtware
- a) System sottware ( Low-level sottware
- > 1+ acts as a middle man that checks & bacilitated the operations blowing bet? The user & Handware.

The burethere classification of system siw are as bollows.

### 1. Openating 241tem(02)

Handwares.

- > 19 windows os, open Source or, Macintoun or (-Apple)
  - 2. Device Drivere

    1+ openates on controls of some

    speci. Pic handware device linked to oure

    System.
- Printer, Sound cands, Handdick, Kuyboard.

  mouse etc C IIo device drivere,

  ULB, Display drivere, Sound cand drivere)
  - b) -Application Sobtwares

    -Appli SIW are end user computere

    Priograms developed primarily to prioride

    Specific functionality to the user.
- > online Mesearich, completing notes, watching movies, playing games etc)

System 21m Application 5100

- bore apply sim to specific tack.
- -> Without fystem sou, -> 1+ always non.

  The system stops &

  can't run:

- System is turned on & meniz mednes +.

  Thops when the stillen

  Thops when the stillen

  is turned of the sillen

  is turned of the
- in the background. bront end.
- -> = DT + = byo to typop, ATC 6+C

# Orientiem of Os

- between user & Handware.
- allocation, CPU management, Pile management

  of the process. Resource
- -> Some ot most used os are ins-windows, abunta, Mac os, tedoria, Cent os, Debian, Android &
- > Now a days computing is done prominently
  by smartphone & tablets.
  - · The Android of is most popular of both commencially commencially launched in sept 2008)

Los à exclusive bon apple company

Linux os installation > Linux os is the most populare open-

14 or -tenmed oben-tonuce or pecox the

Sounce code is not hidden.

-> one of the distribution of the linux

05 à abanta linux.

Installation of ubuntu: A clean install

241-tem nequirement

component	Speci-Fication
Processore	201 Hz dual-corce
RAMICALI	4.61B.
Storiage 1	25 GB
VOIA	1024 x768 Serven Resolution

Step 1: Download UBUNTU

We need to download ubuntu of brom the

Obticial webiete sichvil and internal

" http://www.ubunta.com

cheate a bootable USB using various.

#### Rubus

- 1. Download rubus from its obbicial website
- 2. Insert your Pendrive
- . 3. Run the SIW nutus by double dick.
  - 4. Select your Pendrive & 140 image
  - 5. Than click on select option
  - 6. Select your ubuntu image
  - 7. click on 12TART' click on lok'
  - 8. Unplug your Pendrive
    - S-lep-3 Boot from the Bootable Media CLive ULB)
  - 1. Plug the Prapare live ubunta USB disk
  - Prioristy to your US drive,

3. Save & exit Blos Settings

- 1. The booting Process will begin once boot media à detected.
- 2. Abtere a while, we will see abunta welcome page. Here we have to click the install ubuntu option.
- 3. Next, School the language & click
- 4. There abtere Schet the key board layout

  & click continue.
- 5. Now we have to select the types of apps we want to begin with. We may choose any of the available options ine Moremal on minimal. go force Moremal installation.
- 6. We have to choose the actual installati type we choose the option benet i.e. "Enaise diek & int-tall! bori a brief installation.

- H. By clicking "install How" option we will get a warning window . It alterets us about the diste bonmatting. As we took backup so just hit on the continue option.
- 8. We have to select the time xone i.e. "Kolkata" then Priese continue.
- q. Now we will be asked to create login credentials & name of the compater click on "continue" button at test telling allow are you'.
- Using os.

  Using os.
- 11. Abter Lompletion ob the chatallation,

  Process we will presented installation

  complete dialog box. Just hit is established.

  Now' option to complete the process.
- 12. Remove ULB. Ubunta will boot thom the
- 13. Login & permoted

-> Groogle's selb driving card, Teslar Metblex,
UBER, Dropbox etc use ubuntu os.

The windows or tamely has various Narriants
over time i.e windows xp, windows to windows the end ob 2021, there is a
new version is came in windows II.

## System Requirements

component	Specitication
Priotessore.	1 bits bon 32-bit on 2 bis bon 64 bit
RAM	1 GB bon 32-BLT BIT DOTTE
	32 bi B bb space or morre
Corresphils land	Direct X9 comptaible on latere
Display	800 X 600 Heronation our Burgate
Internet	internet connection during set

installation ob windows. 10: A clean

Step 1: Download Windows ID

- -> vie must Prieparce a bootable USB on Dup
- Tuest Press any Key to boot from the installation

  Step 2: Boot from the Bootable Media COVO/

  Pendrive)

Now we need to pertanety the system so that booting the system with the help of any boot media.

Step-3 install Windows 10

- I. We will get the first screen. choose language
  Time & currency format & keyboard ore
  i/p method provided dripp down boxes click
  Next.
- 2. In the next window click on "Install Now".
- 3. The next window will all us ton licensed product key that came with the punchase of window os. Type the product key in the given box to activate the windows

- 4. The next window will show the literse tenms by literse tenms mead & accept tenms by making checkbox. click on Mext
  - 5. The next screen will ask to choose the type of installation, select newstom installation by clicking.
  - 6. Now Select. the parention where we want to install the as. Atleast 2001B of bruce to install the as. Atleast 2001B
- -times during the process;
- B. Abter completing the installation Process, we have to select the nesion & then ...
- 9. Now we have to relect our keyboard layout then "YU"
  - 10. Now select "set up" born personal use &

mailthui gur bhadhaith a la Yard a tha tha

- 11. Now sigh with the ms amount & click on chext. 16 you don't have an amount, here
- 12. Enter your Parround & click "Next".
- 13. Now we have to cet up PIN that will be Usebul in logging in to the device, apply & Services then 'OK'.
- 14. It we wish to save ours files on one Drive we can specify it by clicking eyes
- 15. Me can use microsoft pensonal assistantie
- 16. Now we have to choose our privary settings,
- 17. Now it may take few mintenses to configure & finally, we will get the homescreen ore decktop screen ob windows or.

the later was the ward of the war will be

a.h.

Laserand i appli com 7

10.8 4.311 211

TOTAL METERS - MAN - C. - A TOTAL - C. - A Unix shell -A shell is a special priogram that acts as an intermediancy bet the user & the Kennel -> Kennel manager 2 1/2 + em nesounces. -> Unix Chell provides a platboum on environme by which any were can interact with the compater system. command enputs i.e.
i) command line shells like sh-") The Bourne Chell bach - 1103 transported to the state of and and continued 1. Prompt: shell display a characteres cf on the when it is neady to accept a new Features of Shell command it the state of the sta 2. command Interepretation: When a user entures a command, it is the shell that determines which program to non 3. Multi-talking: Run more than 1 command at a time. It can also respects

4. command History

5. Wildrands on Aliases: (\*), (?) etc

6. Piping & Ilo Redinection : The olp ob

one program can directly be supplied

to another Program on tile.

Chell Types

Bourne Shell

Shell

HBourne(sh)

Konne (sh)

Bourne Again shell (bash)

Tops C

Theil c+csh)

Theil c+csh)

Shell commands

1+ consist of a single on more world

separated by white space.

command <op+tions> <anguments>

-> Shells also have some commands that ane .

built into shells termed as built-in command that one one command one internal commands.

Directory & bêle Manipulation commande 1. pud: print working Directory 1-t prients the name of the current ore present working directory It prints the complete path of the current wonteing directory ra pond The ed command is used to change 2. cd: change Durice-tony the curerent working directory. \$ cd Dire Name Single do+(.): wheren + dinectory double dot(..): upper durectiony +glde(~): Home genectours. 3. 12: lists content of directory The 12 command with Piles & subdinectoring in a directory. -L: list all Pêles en long Horemat - a: list all hidden feles

the state of the state of

- 4. mkdire & create a new directory)
- 5. Amdire : reemove a directory it it enpty
- b. rem: remove files
  frem < Filename>
- T. mv: move ] Kold-Aslobath> < now-Polopath>
- 8. touch: create fêle

  14 creates a new empty fele.
- q. cat: view complete file content

  14 is used to create, view & concatenate

  files

\$cat L Pêlename> (-to view Pile)

\$cat (Filenames) (Filenames) (view multiple \$cat -n Filename

\$cat y [ new félename] 10 create a féle)

a cat I source filename ] > I decidenation filename]

10 cp: copy feles

dep Leourer - feles (du tination - file)

Terminals, information & utility command, 1. cleare the terminals Seleare .... 2. echo: write astring to Standard off device Secho Letring> \$ fecho I Love My India 3. respect: respects commands respect Lnomberry (command) 4. history -re displaye -the list in nevenue 3. help Brim -- help 6. we : word count counts & displays the no. of lines, worlds & characters of a file wc Loptions J & Pilename > wc -c = ditt : display ditterences dibb Lop-lioni L. Filename 17 & filename 2> 8. cmp: compara two files demp ( Pêlename 1) { Pêlename 2}

9. Drup: Globally Search fore regulare expression & print out Steep Loptions & negulare - exprussion > Cilename)

### NI EDITOR

who provide table 8 as

- -> VI is a debaut standard editor that is available in almost all the flavores of 120 Kinu
- · notified lausing to a most tonods off is IN F-
- -> 1+ can be used to edit an existing file ar create new fele. It can also be used to Simply Head a text file.

Evi L Filename>

#### command Mode

- -> 1+ is used to pentonm some commands.
- -> eg more the curson, cut, opy & Paste the

text.

-> commands in command mode are case Sensitive.

insert Mode This mode is used for insenting text coto the Pile by vi editori. -> By Prussing "E" on the Keyboard, we can command mode to the ewitch from inserent mode. And pruis l'Esc, l'ent eto revolution to the command mode. (Stare + W) Icommand model Entere . Tologo Trich 101 Insent Mode Lord Line Othere. [Z|Z| [WI[al [Enterc] ] Pal Il Enforch [a] Enterch ! (End vi) Function Key insured a consorce write at-len cursore Or.

A	white I II				
	white at the end of line				
u	Tenminate inservet mode				
U-	Change Change				
0	shap all changes I !!				
dd					
344	Delete line				
D	Delete 3 lines				
C	Delecto				
du	Delete content of a line about the current				
200	Delete would				
udw	Delete 4 word				
cw	change would				
X	Dolote about				
-10	Delete character at the wincore				
R-	THE CONTRACTOR				
S	Substitute a characters from concombin				
S	Substitute 1 chanactere				
3	Substitute entire line				
change care of individual the					
	and Alubal Wallacte				
Moving 1	Within a File caving & closing				
Key Fu	enction le Pile				
	key Function				
A STATE OF THE STA	shibt +22 Save & age +				
11.04	le cunson down : w Care but Keep				
p won	le country lett				

Quit without swe Save file & quit

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ewq.

L

move current lett

move current right

UNIT-3

HTML & CSS.

HTML & Tools Ocebul bore webpages & dieplayer.

them in a wep prompers:

7 In general HTML document comprises of 2 tunctionalitées.

capabélity within the text to connect ore reference other dominentic thyperilinking) 1. Hyperetext

2. Marckip: 1+ is a system born annotating a document such that it displays intended text in a visually distinguishable manner from

>-An HTML document is formed with many Tag\_r.

-> -A -tag is a special world enclosed within

angulare brackete < - 4. 16 a tag conveys structuring into, then got is known as structural tag.

like <html> <body> <head>

-> 15 Et is in bouning web priouver a con the bormatting of content then it is Known as a bonnatting tag like TPJ, CPILL, CPILL ( md) -> In p-1 ml there are 3 these of tad 1. Pained tog I containere tag: The tag which are orey might barulad od Trymy Trymy, Tpody 51 pody 6+c troation poen is 2. Single tag & 1+ can any pauc tag of TPUT ZP align = right > 1 Love India < IP>

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Valu value content End-tag attribute Structure of a HTML down on + (html) (head) Litetler Pagentelle LItetler < I head} LOOGIY Welcom, to HTML KIBOdy TIN-toul)

How to create a webpage & type the rod.

1. Open any text editors, & type the rod.

2. Abter that save it with . h tml Gorple-click ou the tile. Basic HTML tag

Doscription

Tag

Doscription

Tog

1. < content align any part of the text. To start a paragraph with 2. 497.4187 new line Next line part of text

Bold any part of text

underline 3. Tpus A. MP. . . KIPY 5. Luy ... 2/47 1Halicus To indent the text from both 6· Li7 . . . Licy 7. Lblock auste)... 369€ < 16lock quote> specitic fort on the text 8. < point > · < I point > Format heading & a. < pul> sm= s + fires mans 10. Komby . . Klomby Och + direstons 11. (5np) .. (18np)

Tag Attreibutes values

(P) align Lebt, reight, centen, Juitby

(bont) bare Any valied bont name

Size A to 7

colore Red on ## FF0000 etc

There -tage and used to set the tette of the webpage, etc background colon & colon of text etc.

Attribute values

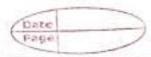
Background ved to display image in RUB values

Asymptotic RUB values

Text



	Page Page
	HTML < ton+> Tag
	1+ is used to create an attractive
- 1	The <ton+> is used to change the colors, size and style ob a text.</ton+>
	sion, size and style ou
	Attributes
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0	Font Type
c7	tont colore
مخ	Font Size
The state of	200
10000	of the text in the HTML downerst
	The mange of size is known it to it
C-The s	& debaut size is 3.
- Stone	CX CLEDANIA ZEXE OF 3.
15	Syntax
1 74	< bont Size = "number">
~~	TON SELE E HOMBERT
eg	< hotml> = 1201 = (201)
	< body >
	Chont Size = " 1"> MONALI
Total	Chont size = "2"> MONALI (/bont) (bre)
	<pre><bont size="3"> MONALI </bont> (bre)</pre>
	< bont Like = "4" > MONALI < 1600+>
I by AL	C/body)



b) Fond Type The bond type can be set by using tace attributes with bon of dag HTML. Syntax < bond bace = " bond - bamily " VIKASH POLYTECHNIC < brey < 1500+7 < bont bace = " Vendana" Size = " 6"> YIKASH POLYTCHNIC <15077 2/body> attacks alaboration (1h-tml) Install addition as I regiment - egott & day's c) Font colore The bont colors is used to set the text colore using a bont tag with the colore attrible te. Syndax with miles on the state of the <bont colore = "colore-name | hex-number</pre> righ - numberily < hotoly < body> Cton+ colore = # boggoo'b > VIKASH (brc> (tont)



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		- Brand B
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		A London De des
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Lieting to g

HTML provider 3 ways to specify a list.

ob wbo.

1. Unondered Lat:

Lui>. < Lui>

each etem (ists stants with < (i) & (16)

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2. ondered Liet
    2017 ... 21017
-> Each tiet Loli) ... (ni)
   14 is used to describe the listed etems
3. Definition -tag
  The Ld1) - description List.
  < d+> - +enm
   <dd>dd> - describe each items
  Unondered List
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   · i+em
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Adding Grnaphics to HTML

The facility to add graphics & images
to a document . by using Limps

value Attribute Top. Middle, Bottom, Leb-1, center & night -Align Bonden of an image width of " " in of on fire Bordere width Height " Height horrixontal space H2 pace ventical space VSPace -Al-lemnative text -114 somoe sounce 2112 HTML Hables

To display data in born of a 20, in pour of nous & columns < Hapley Hag is used.

(Hoble) consist of 3 tag a) Ltrey 21 trey - table now by L thy LIthy - table heading c) < 1-+d> - -table da+ta

<-table> <-tr>< <-tr> > Last-Name LAMY Marks CIAMY LITE

<a href="https://www.es.ps.com/">
 <a href="https://www.es.

CHre

C+A> Snigdha C1+A>

<+d>> Priyambada </+d>

C+17 90 C1+47

<1 Hrey

CIHable

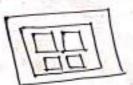
First-Name	Last-Name	Mark
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Cellpadding 1+ is used to. the text

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医验

cell spacing



Rows span & colspan

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Linking webpages
connecting I ham downend to others
is the key reason bore the development web

The capability of linking several web resources is known as hyperlinking.

is known as hyperetext on hypermedia.

#### Note

-> Normally hyperlink occure in blue in colore

-> That hypertext/hypermedia is underlined.

Hyperlank, our detault annow mouse unsorce will twee ento the shape of little hand.

The anchor tag (a). (10) is used to create hyperlink

Syntax

<a hnet = "URL" > link+ ext </a>

Images as Hyperlink

mages can also be used bori hyperlinks.

we need to use cimy > tag in bet Cayeral

La hrett = Location name > Ling stre= "ling-name"

HTML form is a method to interact with

the users.

Such into can be to take intormation

From the useres eq: registing that on form,

beedback born etc.

-> The html & bonn > element is used to create an html form bon usen in put

<bonn

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- pour elements

TI pount

The Linput > Element

1+ is used to collect in bournation brow the

Usens.

Type

Linput Hype = "Hext">

Linput Hype = "madio)

conput type = "checkbox">

<input type = "submit"
</pre>

< " = "button"
</p>

Description
Quagle line text
For selecting one
ob many choices

Schooling o on more

Submitting the borem clickable button

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Text Pields
  <bonm> Fins+ name : Lbre>
  Linput type = 11 text" value = "John" name= 4
   Libray Last name: Lbray
  <input +type = "+ext" value = " Doe" name = iname";</pre>
                    Finst name:
  bostrane
                   Laopu
                    Last name:
  CI poums
                    Doe
 Radio button
 < hay Radio Button (1ha)
< coput type = " nadio" name = " faulang" value = html;</p>
                                   value = " ess">
  & HIML' L BRY
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   (Hd) 229
 < enput type =
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   DHTML
   D C86
   O Javazercipt
check boxes
 Linput -type = " chekbox" name = "vehicle"
   value & = "Bike"> I have a book ( bit)
Lingut type = "checkbox". . > I have a can (br)
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- Submit
  cinput -type = " submit" value = "submit")
     [ Submit ]
  HTML Forem elements
  The Abound elements can contain one ore
  mare bb bollowing elements
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by clabely in the house Ky & output)
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e) ¿ buttony
b) L. Pieldlet)
a) Zinput > U Klabel)
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  Linput type = " text" êd = "trame" name = "toams"
by Lelecty
                a drop-down list
    1+ detines
  <label -for = "carre"> choose a care: 
  2 Select Ed = " care" name = "care">
            value = " volvo"> Volvo < roption>
   Coption
   < OP tion value = " Saab " > Saab < 10 ption>
   Loption value = " audi"> Hadi Croptiony
   Clielect's
```

```
eg <h+m1>
   <head?
   < - 12+le) Web bonn & Etc components < 1+2+le) <1400
   Lbody
   <table bonden=3 width=50% align=1ett
     cell padding = 5 > Later 2 -td>
    <bon ac-lion = "local - Lenvere" me thod = " post"</pre>
    name = " bonm 1 ">
    (h3) Participation form bore annual day (1/3)
   Yourc Name: < input type = "text" name = "text"
     < bre > L bre>
   I am a Linput type = " madio" value = " madio )
     Grice
    Comput type = "madio" value = " madio 1" > Boy < ba)</p>
   Branch: Lidect name = " select">
       Coption > computer Science ( 10ption >
       Coptiony civil Croptiony
       Coptions Mechanical Cloptions
       Loption'y Electrical & roption'y < 11clecty
    year : 2 select name = "select">
       Coptions Emist (10Ptions
        < op Hony Second & 100 Hony
       Coptions Thind < 1 options
```

CIHOLY CHRY CITOBLEY CIHOLY

## cascaded Style sheet (C11)

-> 1+ is used to style content of a unbpage.

> HTML creater extructures of our weberg.
but, cer turns our borring rooking hom!

webpages to good looking website.

> css is optional it is impossible to create

website without using HTML.

caragde

< n-troly

(helad)

< title>

There are 3 ways to apply

1. Intine case
Using the 2+vie attribute in html elements.

< body>

2. Internal ces

(2+yle) bebone body & abtene head

```
< head?
   <-tille> . . . < 1+ 1+1+1e>
                        <7-4/r>
    N7
      colon: green;
  211+11e> 21head>
   ( body) ( KI) Heading ( 1 KI)
  (1 pody)
3) External C11
-> Dittercent ede fêle bore both cus & html
 5 +4/6.613
 K1
  Ecolon: gruen;
we have to link us fele to html bore that
 we use Llinky tag
 Clink rul= 11 stylesheet " hrub="15tyle.111">
< +2+10 ) ... < 1+2+10>
 2 1 head)
 < body> < h1> Heading < 1 h1>
```

Internal CUS Inline 825 CHAMIY (mth) Chead > <body style = "background- <5 tyle type = "text/c15"> h33 colon: # ODFF 00"> background-colon: #0000FF; KPY The background is colon: #FFFFFF green LIPY Ustyle> <1 body> alhead) < body> KH37 Background u blue 21/137 CI body> <1 h+m1> External 223 external us mystyle. css < h+m1> pody <head? clink nel="stylesheet" packgnound-colore: # 808080 type = " tex+ / (111") hneb = " mystyle. cs "> ( head) < body! SHIL WOUNG FILT Niven tear tailure < h37 Metha Patel (1h3)

CIDOCLY CIN+ml>

CSS Selectore It is used to apply the same sofyle for all elements Belonging to a specific class. - Selectoris are used to find the HTML element that are to be styled. -> There are 3 Hypes of selections, i) class scheetore ii) Id Selectore iii) Element selectore 1. Element Lelectore 1+ is used to style all instances of a specific element in a web page -> 1+ is done by choosing on element by Ets tag name & then style is applied to that element closs selection. html <h+m1> <head> Clenic real = "Letylesheed" -type = "Hext ICH" hnet = " mystylez. cse" 17 (Thead) < body> < h = "Leont" > 2 ponts & Fitness (141) 2p clase = fetnessy The world sport CIPY Ch3: class = "Fitness"> A sport (1h3> (pody) (1 Html)

### mystyles.ess

· fitners & colore: white; background-colorigreen?.

### 2. class selectore

1+ is used to apply the same style to all elements belonging to a specific class

### 3. Id Selectore

1+ is used to apply the same style to elements belonging to aspectic is a document which can be selected by its bs

· ed selectore-html

< K+m17

(head)

Clink rul = "s-tylesheet" -type = "+ex+/cu

hnet = " mystylestreet. (11 / C/head).

(Pogh)

< Ly ed = "boxing" & people used to say that</p>

boxing is for men & not for women & 1 -thought ( will show them , one day .

<1HY

KbreyCbrey

Chy id = "shooting" > preactive is a talent

Linux

Linux

Linux

(IM+MI)

m92+41.2.45

=# shooting & color: blue; for +-10xe: 18Px3;

CSS Properties

webpage in minimal time .

CSS Fort Properties

1 & Fort-12xe : 20px;3
5 11.
12 & Port-Pamily: times new roman Fort-style: italic;}
h 1 & Font-weight inormal; }

busterell	Example 10x3
letten-sparing	PT & letten-sharind : Pbx ?}
text-align	11 & text-align : (en Tell)
text-deconation	VT & text-generation; nuterior
text-indent	- P & text-inden + : 60 PX;}
+ex+ - triange	- 1 1 - and kny in chopen co
prioperity	Background Property  Example  N.1 & rolon: blue; }
COLOTC	+ d & text-bligh : (en ten ; }
background-	The State of the S
backgnound-	p & backgnound-colon : blue;
colore	has background image : unl ( 11+ title.)
background- image	California de la constante de
the wind	background - repeat
background-	(ha {

### open 07. Pèce Tools

### Installation of openoblice

The mission of openothice developers is to create an office suite software community that will run on all majore platform.

4

5

- -> The bollowing s-leps describe the process -to install
- 1. First of all, we need to download the turnent version. Prom the openoffice website. i.e.
- 2. on the above webpage, we have to choose appropriate options bon os, language & vension of open office Package to be downloaded.
- click on 'download full installation' button.
- will be downloaded.
- 3. Start the Enstallation with the download bile on installation wixand will appear to guide the installation process. By clicking 'Next' we will be shown a window to choose the installation location. click on tinstall button.

The installation process will began & show come installating into via intermediate

- Or presented to take complete metomere

  or presented to take complete metomere
- -> -Abterc -pelling the borem click on Mext &

  then anothere wendow will be presented to

  choose setup.
- Entrall parton to praise the intrallation intrallation
- -> -At lete some-limes the open obtice installation completed without appeare then click on finish.
  - 6. Now we will have a start tenk on duktop, we can open the openotitie by cloubleclicking the link.

The -Advantaged

1. No elemeing feel :-

example: total any way, the mighest and expenses on use &

2. cnoss- Platform :

The SIW can be installed in several handware anchitectures & unders multiple DS.

- 3. Open Lounce :- , openely available :
- U. Extensive language 206-tware: 
  1-15 UI & available in more than

  10 languages including Hindi, Tamil etc.

E. consistent intentare: 
provides were intentage within a similar look & teel bore better administration.

b. Integration: -

-100's components are intertreted e.g.,

Stelling checker is used consistently actually

the suite Drawing tools, calc, improve &

Draw is also available.

4. Greenvloresty: - - can be set at the component level ore even document level.

8. File compatibility

q. No vendon lock-in

10. community support

openoppies muiters alternative to my yours

- > Using writers we can create down enter such as responts elettent, create complete books with contents diagrams indexes, a gendar, or cannying out more complex tasks such as mail mange.
- 2) Templates & styles
  - is) rage-lyout methods , including frames colons & -tables.
  - in) Emberging on linking of anaphics , spencalsheed
  - is) Busht-in drawing 40010.

- if Built-in drawing took.
- vi) Moster documents
- vii) Natabole integrention.
- viii) Export to path, including bookmork

### Parets of writers Intentions

- A. Title Bare

  It is situated at the top of the writters windows be shows the bile norse of the cornert downers.
- B. Menu Bare
  The menu bar is just below the with
  bare having various menu.

### A) File Menu

contains commande which apply to the entire documents such as open, close, save as Digital signature, prient & export as Pdf.

### 26) Edit minu

contains commands like undo, Ropea & Martotal

- 3. View Menu commands which controls the contains commands which controls the display of documents such as print layoust, with a point layoust, webligged . Full serve view, xoom control etc.
- 4. Insert Menu commands fore insuring elements into headers, tooten & pictures in the documents.
- -> 14 CAD, also commands to insert monual breaks, also commands to insert monual breaks, Epseial characters, Excellence, hyperlinks, bookmanks. Be creat references frame, objects, movies and sound can also be inserted with commerceaning commands.

#### E. Format Menu

bon our downers using while bommands

#### 6. Table Menu

Contains commands about no manipulation of table strenchure eg- invert, debts, marge, spirit. Select

-> in addition it also contains content formatting

commands like -Actoronmats Augotid , conting

### 7. Took Menu

spelling & binomman, Mail Menge, Autocorence & and options.

#### g. Windows Menu

tourness transport commands to rentered

-> The new window command opens another windows whereas the close command closes the current document.

#### 9. Hulp Menu

contains link to open the ADD help file update options that for any available applate bor the 1100

into ob the prestiam.

#### C. Toolbart

-As two mobility of Hoolbares, the writer supported several Hoolbare is

ducked . Flowling . & tears - obt toolbare .

- -> A I docked toolbari is fixed by detault but it can be moved to dibbersen of locations.
- appears as pers the uniment writting & position on selection.
- + Tean-obt toolbare can be opened via a

### Right - click (context) MOND

other object to open context menu. It is the father of a pariest way to much a bun of the right-click object.

#### Rulure

1+ is used to contact & see page manains, pernament indents & various alignment ob whiten object.

#### 0. Status bare

It is located at the bottom of the workspare. -> It triovides into about the document & convenient way to avickly change home document

Leadwell.

-> 1+ contains page numbers. Page style, language, writer made, Alle Lave extertue, digital lignate document view layout, page xoom control et

Stanting a Document There are many ways to open a brush -tex-t document in ADD wreiters:

### 1. Via operating system Minu

we can open any 400 program by using the of mino.

- -> To do so, open the application by selecting Stort > Programs -> writer pri" impuss, cal & Braw!
- -> -Alternatively, you mage just hit the windows key I search button & simply type et whiten"; on elicking the icon, we will have a new document opined.
- quickstantere We can use this method to open a truck document.

Fore the purepose we have to enable thus beature on time by Tools minu -> of Hors -> open of fire-> Minory -> open obbicequick cotanters.

3. Via staret centure open stant contact by elicking on the openobbice icon cost on decktop). Now we can open a new document with the stand tenters of you a Lixt yourself .

4. via file Menu is opened & we want another to open, then the option of the File menu -> New -> Text downerst.

### opening a bournest 1. via start contre

open stand center by ettering on the openatties icon.

wellth on the open intern

- A We can upon from a list of nevent documents
- 14 can also open from the option file

c ctrel+0)

Saving a Domment - A newly created downerd can be Busey in would made.

- -> Solvet Pile -> Save
- -> Select File -> Save as
- -> shored cut key coted+s

a Downer + Closing.

- -> Select File >> close
- -> cross icon at right most of meno bare

Printing a bomment

- 1. Quick printing can be utilized to quickly send a downer to your debout minter.
- 2. controlled Printing It is a metamized printing den option-

we can set panameteres both prienting.

A To execute this command, telect file > print on Kuyboand Shoretest chil+1

Selection, cutting & Pasting in a boromen solutions out & parte operation in the -ADD WHITE application is some as in others applications of a computer system. -> We can use mouse, keyboard, munu commande to penborem the operations.

- > To cut on topy we can use:
- a) kyboard shortwets: etrel+ x (m+) ore c+1+ c c 10/4)
- b) when effections: Edit tent on Edit-scopy
- e) contextual minus: Right ellek text Lebetion Ex choose cut on copy.
- d) icon sounces; int on copy Posting text places, the cut on copied text in the document.
- a) Knyboand shortent: etal+v
- b) Minu silvetion: Elit -> Paste
- c) contextual minu: Right click & choose Parte
- steed : permuos nost (b

Chargoctere Forms Hing rate can apply many fortmats at the characters level using the command buttons on the postmatting toolbare. 2. styles and termatting window 2. -Apply 5-1-4/1 1 Name 3. Font 11. Reduce Font 4. FORT Sixe 12 . Fond colors 13. Highlighting s. Bold P. 3+01:6 14. Background colore # . underline 15 + changeture format 8. Superstrupt q. Subscript 10. Increase Fort Paragraph Formatting who can apply many bonomate to Panagraph using the buttons on the Formatting toolban. weekild grittement to 21/1-2.1 5. - Align Right 5. -416/A 7-41/5 6. Justified 3 -Align lebt 7. Line sparing : 1

4. centered

13 . increase Indent 10. Brotheting n lot to 14 · Paragraph - Porma + 11. Bullets on lott 12. Decrease India+ The writer program supports the builtity to Find a specific text & replace it with other text with it find & Replace? dialog box . -> The dialog box can be opened via the e-tandand -toolban's binocular icon on etal+ F The Find be Replace dialog can be utilized below: -> Find & replace would be phreased -> Use wild cands & negulare expression to Pine - Hune a teamph. -> Find & ruplace specific formatting -> Find & naplace Panagraph style. - The Find & Replace Process is persboround as + :Type the text you want to Find

in the search box.

- -> TYPE the new me text in the wither with pox.
- -> you can select various options such as matching the rase, matching whole words only one doing a search bore . show me limit 2
- -> When you have set up your teamen, elick find . To tuplace text, click, ruplate instead.

Spelling & bynamman checking The writers provides a stilling & granomer checking tarility, accused via Tools - spelling on + + shon tout key

-Autospelleheele It cheeks each world as "It is typed & displays a wavy ned line under any mispelled wonde.

### Stelling & Common dialog

To pentonm a sepanate spelling check on the document . with the stilling & arranmage button .

The whiters autoconnect function has Auto comment a long list of common misspellings &

of which it connects automatically. For example rabotu' will be changed to rabout

Open obtice calc

cale is the spreadsheet component of -Apache openothice. It contains most of the transmit bound in spreadsheet.

- & stringers of the custo etails etained to stone data in tabulare form:
- -> calc is similare to microsoft excel & capable ot opening & laving various epresadetiet File formate, each short of celli-ournaged to new to telomas.
  - · cate consists of Several individual sheets, each sheet of cells avenaged in nowe & columns:
  - · Functions, which can be used to create

Formulae to penborem complex calculation

- · Da-tabale Functions to armange, store & filter data.
- . Dynamic charts: a wide mange of 20 & 30 charts.
- · Macros fore neconding & executing respectitive talks.
- · Ability to open, edit & Save.
- . Import & export to typothes in multiple bormats, including HTML + LLV, pat etc

21100 Strand 2, translated of nottoubont-nE In calc, we create file that are called stanopse larguese to tienos etanoparope Cherts.

- -> Each sheet containing cells armanged in · somulas 18 2 worn
- se wast stiff ged to idistorate is 100 sidings Adecolumn letters.

- In cole, each sheet can have a maximum PKOL 80 " ram & swar 642,840, L 40 wolumns.

Parets of cale Intentace

- 4 The menu bart, +++11 bart, formatting toolbare U standard toolbare have the same bunctionality
- -> run -toolban to ive formula barr.

Formula bare

It consists of various controls which are annotated with dark background colors. -> The "name box' holds the address of the

- commently solveted cell.
- The Foretion wiexand it used to overview on insent available inbuilt functions. H also shows the former-tere tist and syntax of the function.
- clicking the sum button insures a boundle into the current cell that totals the no. in the tells.

-> clicking the Function button intends on off Billes heterles and ot as nows (= slower input time.

### 1.Nos laubivibat

The main section of the screen display the calls in the bonn of Breid. with early intensection of a cet being at the colomn & a now.

-> The columns start at -1 & go on to the right, and the nows stant 1 & go gown.

### sheet tabs

the bottom of the arrid of · edot trade with arm ellas

- -> These tabs enable access to each individual smet, with the visible tactive) sheet having a white tab.
- -> clicking on anothers sheet too displays that their do the to towns white.

Stanting, opening, saving & closing

· Stanting of CALC document can be via Os menu. Via quickstonten & via start

- -> -An almeady created cale document can be opened via quickstantere on via stant
- + monuson to gained is grived wheelines + also bollows the 4001s 2 fandared providence

Freezing / un freezing Rowe & columns

Freezing locks, several rows at the top of a sprivadsheet on several columns on the let + ob spreadsheet on both.

### Freezing rows & a wolumns

- 1. cliek into the cell i.e immuliately below the now you want frozen & immediately to the right of the column you want to be Frio Zen.
- a. choose window -> France

Unemering To un Prior te nows on tolomn's chool window > Proeze; The checkmank by Eurosas mill pe somoney.

creating a chart

calc supports a variety of charets & graphs to present numeric data etticienty conveniently.

- -> using case, you can ent-tomize change & graphs to a considerable extent.
- CALC which is to be 1. Insit data that the arraphically presented.
- 2. Silvet the data to be included in chart/ Graph Formation.
- 3. Either press the chart icon on I tandard -toolbase on bick click incomet -> chant
- 4. 1-1 will show a chart wizard with detaul+ - formation of the chant on there the diven gate.

- The shoret wixand has & 4 main pants: 1. choosing a chan- type

2. Data mange

3. Da-la Lentes

4. charet element

contacting Formulas in CALC the formula at it it were text. In two ways, either directly into the cell itself on at the input line

-> E & then way, we need to a tant a termula with one of the bollowing symbols:=, ort - . t

Formvale =-47 + 70

During Hon Displays the content of CEN -Xx Plus 10

= 47-416.1.

-CA \*- LA- +

- Round (5.4. ; 12)

16 of. of the content Al multiplication of the GAZ

= Round(-1: 1)

= Ebbretime (5 %; 12)

= sum (88; sum (810; B14))

= Lum (81: 86536)

= Average (Blood Sugare)

Openoblice Impress is A00 stideshow (prisentation)

program.

In pruse eneates prusentation in the obp

bonnat, which can be opened by others

prusentation som can be exported in

dibberunt element prusentation bonnat.

dibberunt element elide that contains dibber

otheractive background ethyle.

the bollowing words:

The bollowing words:

The sharet centure click on the sharet centure click on the sharet tenture click on the sharet that the sharet centure click on the sharet that the sharet centure click on the sharet that the sharet centure click on the sharet centure control control

-> From any component of ADD: click on choose File -> New -> Pruson to the From the prusintation Prion the drop-down minu. un on the menu Hoolbare & select the traingle to the right of the nuo quicks tanten.

-> When you t-harry Impries for the built time The prusentation wixard is menu bart.

1. under Type, choose one of the options:
Empty prusen-lation creates a black
Prisentation.

· From template uses a template design

already meated at the battle than a new prossen-ta-lion.

The wizard changes to show a list of avoilable templates . choose templates you want.

- · open existing prusentation continues would on a pruviously enceted pruses to tion
- 2. click next as it appears it you selected empty poster-taction.
- · 3. choose a design under solvet a slide design . The slide design section gives you two main choices: Presentation background & Presentation.
- : 4. Select how the pruson tation will be used under select an op medium.
  - 5. Essente click Nex +. Soler + the descried speed from treanstration bet the elibberrant
  - b. eliek conte. A new presentation is crusted.

Ports of Impress Intertace The main impress window has 3 parts -: ) The slides pane.

- ii) Wonkspace
- iii) Tack Pane
- i) slides pane thumbrail pretures of 1+ contains

the slides in your tresentation.

- -> clicking a slide in this pane solects it be places it in workspace.
- -> Several additional operations can be one on more stides Simul-taneously in the elides fans:
  - . Add now stides to the presentation · Marck a slide as hidden, delete a Elide From the Promentation no longer needed.
  - a slide, duplicate a slide pre · Rename mores it to a different position in the presentation.

Tacks Pane

The tasks Pane has several Section to u with to use.

- -> click on the night-pointing A to the letter
- > value one sention at a time can be selected
- 1. Mostere Pages
  Here we detine the page ctyle fore
  Yours presentation.
- 2. Layout the Pre-Parkaged layouts are shown their it one you want , use it as it is one modify it to your menutument.
- 3. tustom telements of a slide are listed.

  4. Stide Transition

wh can select transition type, it speed, chaose bet an automatic ore maneual transition a choose how long

the selected slide will be shown,
whomperpass
1+ has = +abs

1. Normal view:

14 is the main view bore working with individual slides. use this view to format and design and to add text, graphics, and animation obtacts.

2- publine view

The outline view contains all the slides ob the prosentation in their numbered sequences.

3. Norted view

a slide.

a click the notes to be the workspace b. Select the Elide to which you want to add notes.

e. In the text box below the slide, click on the words click to add notes, and begin typing

4. Handout view is bore setting up

the layout of your slide fore a printed

tardout.

A click the handout to be in the wontespace than choose layouts in the tacter pane. I tale can choose to print 1,2,3,4,6 ore of slides fere page.

5. slide souter view

Slide Souters view contains all ob the slide thumbnails.

Slides one with only one think a group of

Toolbans

Many toolbard can be used during slide creation; they can be displayed on hidden by clicking view > Toolbans & sleeting - Prom the menu.

Status Bare

14 located at the bottom of the improves window.

contains into. that you may trind who

Navigatore
14 ton displays all objects contained in a

document.

-> It provides another convenient way to move around a document & find êtems in êt.

-> To display the Navigators, eliels ête êcon on the standard toolbax, choose view -> Navigators on the standard toolbax, choose view -> Navigators on the standard toolbax.

Formatting a Prusentation

A new presentation only contains one impty slide. In this section, we will stant adding new slides & preparing them bore the intended contents.

Total postment

· hunt -> clide

Right-click on the Prosent Elide, & sheet slide + New Slide from the popular menu.

· click the clide icon in the prosentable

Solveting a Layout

In the Tacks Pane, select the Laupun drawers to display the available layout. To Slide will contain, From a blank while will 6 content boxes & a +841e.

-> To salect on change the layout, place the slide in the work area & select the desired byout from the layout disawers. Modifying the slide elements

slide contains elements as perc oun chosen layout slide , we may remove unneeded elements be add objects, as well as insent text. To add any pictures ore get itest wolled cabile ast at stride 1. To add pictures from anaphies biles -to place others than the slipare-t.

a. insuret -> Picture -> From file. b. Browse to the graphic file. To see a travian of the picture , thrope priview at the bottom ob the uneret pictures.

e. Move the picture to Etc location. d. Resize the Picture it meening layout dibbere in the no ob clements , 2. To add text to a clide that contains a text brame, dick on dick to add an outline in the text from & then donn +1x+ .

3. To remove any element on the slide ive not meguined, elick the element to Silve + 1 + + 162

an Animation Ettect -Applying choose the animation to be applied when the object is placed on the serven. use an effect from Entrance Page

+ Use Emphasis Page to apply ettect, such as changing the tont won, troods to song the ot no blinking text.

-> To choose the ettect to be applied the I crecen. when the object is leaving use the Exit Page .

-> 15 you wan it the object to move along a line on turne, siles it an animal .

From the "Motion paths page".

Stanting on Mimation Ettect
You have 3 choice bon stanting on
animation ettect.

- a) on click The animation does not start until you dick the mouse.
- b) with pravious The animation thange at the came time as the previous animation.
- c) -Abten Pravious The animation runt as soon as the pravious animate ends.

Running the slide show one of the bollowing

no work elide thow -> elide thow on the main menu bart.

· click the clide show button on the presentation toolbar on slide soretere toolbar.

PA no 24 mmg.

one.

Printing a Prisertation

Signature provide many option bord sold not post of the sold sold of the sold

The busy fore & gots integed bushings.

If prevent top, it noted to refer to graped or thouse.

The prevent top, it noted to report to the to the top.

The bush for the bush to graped or thouse.

openottice impriess tab is used to include slide name include slide - specific contents calide name date & time etc), colore, size of the printing.

Intonmation Security Bost Practices

Introduction to intermation Sumity.

Intonmation
When any kind of meaningful data is processed en a meaningtul torms 1+ is tenned Intonnation.

- Dittement Kinds of data, tace photo, name, address, -Aadharc details, bank details, mobile no., email address, location, blometric de tails. some government sectore secreet data etc aree processed en a combined forem & êt becomes entormation ob Pare-ticulare person on organization.
- -> IT -Act 2000 detines into. in a morre Priece way as "1+ includes data, text, image, audio, codes, computere programs, 2/w, video etc.

Intonmation Securety 14 is detined as the Promises & me-shodologies to protect the Print, electronic one any other born ob confidential, private be sensitive into ore data from tenanthorized area, use, miner, disclusion, destruction, modification ore disnuption.

. + made as second Interes in short

Intermation Sumity broats

There are 3 main gode tro-tro-ted by in to security known as CIA trade

1. confidentiality:

14 indicates that authorized using should be allowed to access dark ore computer system.

2. Integrity:

In the Interior integrity principle
explain data should not be modified without
authorization.

of into.

t 3. -Availability
14 incures that into should be available, whenever required.

to them. Evenname. Password, email,

Threats -to intommation security

I. Mahulane
These are some ted to builtill
malicious intentions. Some malwars is as

A) Ransomware:

14 Privents the viere to arrest

there or our constain application and darta
by enemypting their darta.

A Hackers demand money thom viction to during the thing tile ( Monetony)

tes: crypto Lockers, conti, Wannacry, etc b) Thoian

It meater backdoores entiry into the target computers.

- eg Flame, Banken, Downloadere, Zevi, & Beary
- on the law of exponent 14 works growth thus it intects many more computent in a very shoret period. -yeg 120veyou, code Red, explorers Zip, Love Buf. W32. Nimda & W32. stux ne t
  - d) spyware in designed that spy the user's into with the aim to harem them.
- -) eg cookiu, on webpagu & Kny loggens.
  - E)-Namory

1+ is designed to come to the venue bone 245 divelopens.

14 also termed advertising supported

- -> 1+ +marks usen's behaviours & sell out that into. to interested and parties.
- 2) Kulleddorry It is designed born stealing the yota his encounged the Kentyworks. - a compatented, Kiglodden, zabusx
  - program that It is a computer replicated & attached & tell to anothere legitimate computere program to àbect the computer Eyetem.
- -> Vinutes disnupt the working opus personal files, computere system etc omos & transport , clammare, sturnet & come
  - carries + vinuses. h) Sweepens These are programe to wipe out data from the targeted marking.

It malicious usens gain aress to the the system, they can install a browns tiled the smoote another way

2. Social Engineering Attack The People can be tricked one PSychologicall manipulated with help of technology to take Some action on divulge confidential into.

a) Phishing

The backers obligately sends on small one text to the tonget, seeking into a thank might help with a more significant crime. -> - A hockers might send email that appear to come from a sounce trusted by victim.

P) rithing

- -> It is the voice vention of philling. V stands for voice, but otherwise the attempt is the same.
- -> The hackers used the phone to truck a victim into handing over valuable into.
- c) smishing 14 is the text vincion of phicking. acnonym bon Ems thubing. whith u

In a such seam a LUB drive on other electronic media is preloaded with malwane be supplied to vience.

e) Quid prio quo stam 14 involves an exchange of

you this, and you give me that. believes as a

- of Hackeres make the victim taine exchange, but that's tare from the case, as the cheat always comes out on top.
- 3. Network Threats
- a) Eniffers

Soilfers are progress to monitore new treatist via tracing now packet. These can be used to gathere into which will be helpful in the attack.

B) Botnet - A interted device it denined as the compromised divice. When a group of such xombies are undere the control of some molicious usen then the users can use this

of malware on a computer on a now

a) than in - the - Middle others

It happens due to instaure comm?. In such a expenditions on other kers relay on testibly a leter the organizer comm bet senden & receiver without their knowledge.

i) It specting to it in testets that the country of its pectate that have a most field sounce address to either hide the identity of the senders impersonate another computers system on both.

is) Ensilon hisoching

A section had the usen & the

Convert can be hisoched by the hisochem.

Combating intermetion Lecurity Threats

14 is the into- Lecurity technologie

to product own into- from translatent

usens.

ant, not coince". It is a continuous process.

a) Firewall is a dedicated device,

A firewall is a dedicated device,

that monitores now that the be refer ted one

approved based on notes.

that nothing private & modicious things can growt it not coming in .

b) Doto backup ... 14 is the proves of createry copies

on duplicating the darta.

to our data.

-> Bottop can be taken in 3 ways.

11) Dibberrantial Backup-

#### quased nuts (iii

- c) Vintual Primate Network

  It is a now in consect to a primate
  using internet. To connect to a primate
- These system use enoughtion & other survive that only suchanism to ensure the new & authorized users can not be interespected. That the date can not be interespected.
- d) Everyption
  Plain date can be convented into a
  non-medable bonnat.
- The sake of achieving security.

e) -Anterinos 208 twans

From malware intertion but it priorite
from Several attacks & Keep into

- 14 provides the bottoming beateress

. - Antivinus beateures

· ArtionTrojan "

· Hatilpyware 11

· Anti worm "

. Anti phicking "

· Anti Rootkit

· Sean errail

. Ican compracted biles

· Mutomatically detect our

· Quarastine Showled biles

. - Automatically clean Entreted bile

29 Symantee Wonton, Martivirus, Kaspiriky,
Betärtenden, Aug antivirus, Buick Heal etc

6) Interested the Users in case of any

3) Its continue ion protection Existent promotes the continue to the protect on ending their attack by blocking resourcest on ending their attack by blocking resourcest on ending of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end of their attack by blocking resourcest on the end

Intermetion Security But Moutices

- applicated about intosec Saterty tools &
- -> Technology should be own assistant con close not our master, hence we must adhere to some good habite to use technology in an objective way.
- of India has issued intosec quidding too the benitit of Good othicals of others.
  - a) General computer wage
  - 1. All classified work should be stressify construction computers.
- 2. Create strong password ton login by using tombination of letters, no & special chances
- 3. computeres should be protected brown
- 4. Ensure your system is up to-date
- 5. Don't leave the computer unattered with

- 6. Mossile lock have containe pipers in
- I. Use password too treted screen sovers with
- 8. Be caraful of what you that into yours
- a. Treate sensitive data very combully
- 10. Back of your import tiles.
- 11. Remove unnetettany programs on service.
- 12. Do not give rumote access. File & print abording option to other compater.
- 13. Avoid extening sensitive into on a lutie
- W. Do not use til thoring 110 ton od . It
- 15. Remove files on data you no longer newly
- 16. Environ to use ups
- usell outlet at bower crudes well goweld to the computer grantly into the
- 18. Placed the System in a moom ine dust three & has a good van Helatton.
- 19. Dan't ent tood on drink near the pe

- b) General Internet Browling 1. Always he caretul when elicteing on links on downloading.
- 2. Do not download any type of file brien any sources.
- 3. Use a web promsen is tempeted by your out.
- 4. Always use updated with bnowsers.
- I. Do not storul share any sensitive into. on any divice it connected to interret
- b. "The "Love Password" operation prompted should not be selected.
- 2. When on town, avoid using service that require location into, unlie it is necessary tore the discharge of official dutice.
- a. Avaid clicking pop-ups
- 1 10. Avoid using public compatence & public wi-ti

- ey password Management 1. cone te a strong password with a min long the of ideally to change tens & compaising
  - of a mex of alphabet, no. & character.
- 2. All password should be changed at least ouce eventy 3 months.
- 2. Don't reuse old password
- 4. Passwords should not be stoned in mudable
  - factionals as sanstitue in 60. & do
- not share it with anyons.
- P. Wonder are gifterent borrowing pour exing 103-50 amount you have.
- It. Almost decline the use of the Remembers bottmound " fewfores.
- 8. Kemempere merk basemound . pare posonous . con tains less than to themseters.
  - . Word found in a dictionary
  - · common usage wonds en am , Pet nome triande, colleagues, movies/ novel : etc)

phone no & address.

· words out no fortener like 12341, and

9. Some Suggested was to construct a strong

1 there, must also use no. special character .- A secure password not only consider to

which with no. & special characters, will become "!", an "o" become "!". an "o" become ".

. Password tength matters . the longers the password the hunders 2t is to

. Relect 1st letter & ob each world in a

rono.

10. Do not rureal Passwords to although.

14.

Removable Intonnation stonage Mills

To-further row / to to play tenteres must be disabled bon all removable media.

2. The classified dada should be encuryated

The rempersers should be enabled with a string or the south of the string of the strin

election of the cold some of the object of the party of the order of the order

C- Removable media 17Ke UEB's, cos etc must not be lebit wantlended:

6. Removable media should not be taken out of obtile unless Pennited by the competent outhousty.

environment milia must be stored in an appropriately simula to take

8. The contents of rumovable media lerias ab dere the obbicial purepose has been

sinved .

a. Avoid Basting 10. Scan all electronic media bort Malware

persona nie.

E-mail communication

a. classified is to be not communicated 1. - Avoid downloading omail attachments ore

via emailt.

4. Aurto cave of pass would bon email 3. - Avoid accessing obticial email accounts

5. Logout from mail auounte abiten youre arrount grould not be enabled.

word & don.

b. Usere should type the complete URL is 4. Do not open / bonward / ruply to any Suspicione email.

> q. Do not open attachments having extension 8. Be can from on tiny on shore ! ended whe 10. Enable multitartore authoritiention bore logen into your email elient.

11. Email 304 Chould have a titnong password 13. Do no + Kup mails in tobox, send box, 19. Once en every 30 days. email posswould should be charged.

14. Make hobit of cleaning his torry from dratt etc. which are no longer newind

prioried up for each logout terrior.

J. Tunn on WPA2 on higher energyption Home Webi Network bearlund.

4. vorsiden vsing MAC. I. Tunn obb your wireless mouther when 3. change the n/w devace debautt postward. 2. change the deboutt niw device name

not rudid.

- 6. Disable rumote management tratures.
- 7. Into Idata on the wife new thould always be in enemysted from.
- 8. Do not connect the access point directly
- q. Do not autocomment to open with no
- 10+ Diboble was & Telnet Services
- 11. Turn of the new during extended bensed of non- nose.
  - -Avoid locial Engineering -Attacks
- J. B. constal to unsolicited phone calls, visite on email messages know individuals acking about personal on others govt. intommation.
- 2. To protect yourself from phubing do not neveal personal, servitive on Financia Minto.
- 3. Dough consent and consisting jupo, overc Phone calls to protect against victing.
- 4. Don't reveal any consideration by over
- 1 2 ms to protect against smithing.
  - 5. -Avoid online conventation to throught
  - b. Be confided of the URL

- I . Hockers wants you to act timet & latere. It the many conveys a sense of ungenery ore use high principle coles facilité be skeptical.
- 8. Immediately change only pursuand you might reinealed to anyone.
- a. B. smbicious of unsolicited them colls. whether on small mercages from individual acting about employee one other internal
- 10. to not provide personal in bo. on into. about yours, organization.
- 11. Install be maintain anti-vinus 1/10
- Smart Device (Smart Phone, Tabl etc)
- 1. Smart device must not be used bors sensitive telephonic converse tion. The will te & blue-looth should be kept in -hunott.
- to Internet connection in the Emant device will normally be kep + on Dbb-mode

3. No free app should be loaded in the smaret device

attended to practect it from malware instally

5. Relevant anti-vinus sew should be installed

b. Frue with should not be used at tublec

I. A comprismised smart device should not be connected to a computers even to change.

8. Turn of the april which are not needed.

q. When a device is lidle, it should get locked to resource a patterior of pain or patterior.

to, Dough Juil - purak form genise

11. Watch for unauthenized GARL Idata

12. check the memory frequently it any unusal

13. Think before you elick or download.

14. Understand the team of use.

cherklist for Source - Android device

1. Implementing basic Quarity

S. LIM PIN

3. Energytion

11. Passwords

z. Muttiphorn anounts

b. Divice - Administration

7. Mobile Lourity cuite

8. Dovice Backup

a- Mobiledovice Management

10. -Applica-Hon Penmission

11. - Application Locks

12. Transaction Password

13. Rooting device

14. Disital Wellbeing & parental control

15. B Note the IMEI code

16. Don't make yours mobile phone a course

Social Networking

- 1. Do not stone any into you want to tracting
- a. Always use high country setting on social networking sites.
- 3. Use anti-venue & timewall Lot twares.
- G. change your password periodically.
- E. Do not post anything that might embricar you
- b. Do not automotically download ore recepend to
- the only install applications on the that come
- 8. -Avoid accreting yours personal accounts those probles computeres on through public with
- 9. Disable laps encoding
- 10. Beware ob encolicited contacts from individuo in penson
- 11. Monitore your bont statements, belances & credit responts
- 12. Do not chang esternam, poswend, credit county.

bank into a Salamica etc.

13. Do not provide into about yourself

14. Be thoughtful & limit the personal into

15. Do not click advanticement.

Registering on Account

- 2. Never provide a work austiated email to
- 3. Do not use your real name
- 4. provide only into. that is necessary
- "Instant Messaging CIM)
- 1. constal when counting a struck name.
- 2. Never provide Sensitive Pensond intommation
- 3. created barenien against unwanted 121.
- tou-last lists.
- E- Never open pictures, download fe'll on click link in memage from people you don't know.
- 6. Do not send functional ore provote IM of

Online Transaction / ATM

- . 1. Betone you buy, theele out the respudentes
- : not store & seller.
- 2. Be aware of what details legitimate sit.
- = ack for before entiring come a transaction
- d 3. Be mand of peropetery well.
- 4. I ene to distinguish bogue comme that chair die to be from banks and tion lite &
  - other Financial installation
  - 5. Review Pinancial & credit cored etatemen
  - for unknown expensely
  - 6+ cannol usual dibit/ enalth conds
- Et. check yours condit cand statements & come the scupped street about the scupped
- c 8. Never white down; Pints & passwords
- of Always use thisting Filler in your
- 10. Delete all cookies & history
- onlines

2. Always are wintered Keyword with me

12. Registers yours Nobile no. & email white for timely soften

who was done werene would: for soil ower

ic. he contious whole scanning AR code

Automated Teller Machine (ATM)

- T. -Vimali bustiet from DIN, Dougt dire
- 2. come the respect while you are entering
- 3. Do not operate ATM in lonely places /
- 4. Be wany at anything about the ATM ... And looks out at the and many.
- 5. Look for a "no tampening" 28gn.
- 6. Regularly thick bank actounts to make Sure that no unusal on man thereixed

# public computerc

- 1. It you store our download any personal into on a Deck-top in a cybercate make surp you delite all the documents.
- 2. Always check browsen's Secure ty aspects.
- 3. Bramane of Kulloddent
- 4. Be aware of charing pensonal ento. Should
- 5. Ensure that cybencate has up to date anté vinus & Antispam 21w.
- 6. Do not leave computers unattended with sensitive intonmation
- 87. Do not enten sensitive into . 18 to a public computere
- 8. Always make sure to log out properly when you leave expericate.