IOTIANHUB INTERNSHIP COURSE

Advanced Python Syllabus

Core Python

Week--1

Introduction

- ✔ History
- ✔ Features
- ✔ Setting up path
- ✔ Working with Python
- ✔ Basic Syntax
- ✔ Variable and Data Types
- ✔ Operator

Week—2

Conditional Statements

- ✔ If
- ✔ If- else
- ✔ Nested if-else

Looping

- ✔ For
- ✔ While
- ✔ Nested loops

Control Statements

- ✔ Break
- ✔ Continue
- ✔ Pass

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Week-3—

String Manipulation

- ✔ Accessing Strings
- ✔ Basic Operations
- ✔ String slice
- ✔ Functions and Methods

Lists

- ✔ Introduction
- ✔ Accessing list
- ✔ Operations
- ✔ Working with lists
- ✔ Function and Methods

Tuple

- ✔ Introduction
- ✔ Accessing tuples
- ✔ Operations
- ✔ Working
- ✔ Functions and Methods

Dictionaries

- ✔ Introduction
- ✔ Accessing values in dictionaries
- ✔ Working with dictionaries
- ✔ Properties
- ✔ Functions

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Week-4---

Functions

- ✔ Defining a function
- ✔ Calling a function
- ✔ Types of functions
- ✔ Function Arguments
- ✔ Anonymous functions
- ✔ Global and local variables

Modules

- ✔ Importing module
- ✔ Math module
- ✔ Random module
- ✔ Packages

Week5--

INPUT_OUTPUT—

- ✔ Printing on screen
- ✔ Reading data from keyboard
- ✔ Opening and closing file
- ✔ Reading and writing files

Exception Handling

- ✔ Classes & Objects
- ✔ Inheritance
- ✔ Overriding v/s Overloading
- ✔ Overloading Operators
- ✔ Data Encapsulation

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Advance Python

Regular expressions

- ✔ Match function
- ✔ Search function
- ✔ Matching VS Searching
- ✔ Modifiers
- ✔ Patterns

CGI

- ✔ Architecture
- ✔ CGI environment variable
- ✔ GET and POST methods
- ✔ Cookies
- ✔ File upload

Database

- ✔ Introduction
- ✔ Connections
- ✔ Executing queries
- ✔ Transactions
- ✔ Handling error

Networking

- ✔ Socket
- ✔ Socket Module
- ✔ Methods
- ✔ Client and server
- ✔ Internet modules

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Multithreading

✔ Thread
✔ Starting a thread
✔ Threading module
✔ Synchronizing threads
✔ Multithreaded Priority Queue

GUI Programming

✔ Introduction
✔ Tkinter programming
✔ Tkinter widgets

Sending email