Python Programming

Core Python

Introduction

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

Conditional Statements

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

Looping

- ✔ For
- ✔ While
- ✔ Nested loops

Control Statements

- ✔ Break
- ✔ Continue
- ✔ Pass

String Manipulation

- ✔ Accessing Strings
- ✔ Basic Operations
- ✔ String slices
- ✔ Function 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

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
✔ Composition

Input-Output

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

Exception Handling

✔ Exception
✔ Exception Handling
✔ Except clause
✔ Try ? finally clause
✔ User Defined Exceptions

Advance Python

OOPs concept

✔ Class and object
✔ Attributes
✔ Inheritance
✔ Overloading
✔ Overriding
✔ Data hiding

Regular expressions

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

CGI

✔ Introduction
✔ 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

Multithreading

✔ Thread
✔ Starting a thread
✔ Threading module

- ✔ Synchronizing threads
- ✔ Multithreaded Priority Queue

GUI Programming

- ✔ Introduction
- ✔ Tkinter programming
- ✔ Tkinter widgets

Sending email