

PYTHON COURSE CONTENT

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
- ❖ Comprehensions
- ❖ List Comprehension
- ❖ Tuple Comprehension
- ❖ Dictionary Comprehension
- ❖ Set Comprehension

Functions

- ❖ Defining a function
- ❖ Calling a function
- ❖ Types of functions
- ❖ Function Arguments
- ❖ Anonymous functions
- ❖ Global and local variables
- ❖ Iterators & Generators
- ❖ Iterator
- ❖ Generator
- ❖ Decorator

Modules

- ❖ Importing module
- ❖ Math module
- ❖ Random module
- ❖ Packages
- ❖ Composition

Input-Output

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

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

Exception Handling

- ❖ Exception
- ❖ Exception Handling
- ❖ Except clause
- ❖ Try? Finally clause
- ❖ User Defined Exceptions

Multithreading

- ❖ Thread
- ❖ Starting a thread
- ❖ Threading module
- ❖ Synchronizing threads
- ❖ Multithreaded Priority Queue

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

GUI Programming

- ❖ Introduction
- ❖ Tkinter programming
- ❖ Tkinter widgets

Sending email

Troubleshooting

- ❖ Diving In
- ❖ Getting to the Command Line
- ❖ Running Python on the command line

Database

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

Networking

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