



PYTHON COURSE CONTENT

PYTHON

Core Python

Getting Started:

- What is Python?
- Comparison of Python with other languages
- Salient feature of Python
- Execution model of Python
- User Domains for Python
- Industries using Python

Introduction:

- Installing Python
- Python Installer
- Indentation in Python Editors
- Programming Elements
- Structure of Python program
- Comments in Python
- Python file extensions
- Setting Path in Windows
- Edit and Run python program without IDE
- Edit and Run python program using IDEs

Variable:

- String Formatting in Python
- Initialization of variables
- Input and Output operations

Operators:

- Arithmetic Operators
- Comparison Operators
- Assignment Operators
- Logical Operators
- Bitwise Operators



- Shift operators
- Membership Operators
- Identity Operators

Control Statements:

Conditional control statements

- If
- If-else
- If-elif-else

Loop control statements

- for
- while

Transfer statements

- Break
- Continue
- Pass

Data Types:

String

- What is String?
- How to Write String in Python?
- Methods of String

Number

- Introduction
- int
- float
- complex

Boolean

- Boolean Methods

Sequences



- List
- Tuple
- Set
- FrozenSet
- Dictionary

Functions

- What is Function?
- Advantages of functions
- Syntax and Writing function
- Calling or invoking function
- Classification of Functions
- No arguments and No return values
- With arguments and No return values
- With arguments and with return values
- No arguments and with return values
- Recursion

Functions Argument types

- Default argument functions
- Required (Positional) arguments function
- Keyword arguments function
- Variable arguments functions

Lambda functions

Nested functions

Recursion

Decorators

Generators

Iterators

Map()

Filter ()

Reduce()



Python Variables

- Local variables
- Global variables

Adv Python

Introduction to OOPS

- Classes and Objects
- How to define class in python
- Encapsulation
- DocStrings
- Constructor
- Types of variables – instance variables, class variables
- Types of methods – instance methods, class method, static

Inheritance

- Single Level Inheritance
- Multi Level Inheritance
- Hierarchical Inheritance
- Multiple Inheritance

Polymorphism

- Introduction
- Case Studies
- Operator Overloading
- Method Overloading
- Constructor Overloading
- Constructor Overriding

Abstract Classes

Exception Handling

- Introduction
- try
- except
- else
- finally



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- raise

Modules

- How to Import Modules?
- alias name to the modules
- alias name to the members

Package

- Math module
- OS module
- Random Module
- datetime module

Access Modifiers

File Handling

Date and Time

Regular Expression

Multi-threading

Deep Copying and Shallow Copying etc.

Source Editors

2 Live Projects

Resume Preparation & Interview Questions

Regular Assignments & Material Softcopy

Placement Assistance

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