



Python

Course Content

Python

- Python is favorable among students, developers, data scientist and software engineer
- It has vast collection of libraries, frameworks that supports data science, research and AI

Prerequisites to Learn Python

- Anyone can Learn



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Python Introduction

- ✓ What is python?
- ✓ What can Python do?
- ✓ Features Of Python
- ✓ Installing Python
- ✓ Environment Setup For Python
- ✓ Hello World in python
- ✓ IDLE Tour

Python Fundamental

- ✓ Print statement
- ✓ What is Variable ?
- ✓ Declaring variables
- ✓ Changing variables values
- ✓ Single line variable declaration
- ✓ Assign same value to multiple variables
- ✓ Comments in Python

User Input

- ✓ Input / Output Functions
- ✓ Printing on screen
- ✓ Reading data from keyboard
- ✓ Typecasting

Operators in Python

- ✓ What is Operators?
- ✓ Types of Operators
- ✓ Arithmetic Operators
- ✓ Comparison operators
- ✓ Logical operators
- ✓ Assignment operators
- ✓ Membership Operators
- ✓ Identity Operators

Program Flow

- ✓ if Statement
- ✓ if...else Statement
- ✓ if...elif...else Statement
- ✓ Nested if statements
- ✓ While Loop Statements
- ✓ For Loop Statements
- ✓ Nested Loops Statements
- ✓ Loop with Else Statement
- ✓ The infinite loop
- ✓ The range() Function
- ✓ Break and Continue Statements

Python Data Types

- ✓ What is datatype?
- ✓ Types of Datatypes
- ✓ String Manipulation
- ✓ Numbers
- ✓ String
- ✓ List
- ✓ Tuple
- ✓ Dictionary
- ✓ Built-in Functions & Methods

Arrays in Python

- ✓ What is Array?
- ✓ How to create array?
- ✓ Accessing array elements
- ✓ How to slice arrays?
- ✓ Mutable array
- ✓ Concatenate Arrays
- ✓ Different methods of array

Functions in Python

- ✓ What is Function?
- ✓ How to declare function?
- ✓ Default function
- ✓ Parameterized Function
- ✓ Function with return Statement
- ✓ Function with multiple return Statement
- ✓ Default Arguments
- ✓ Keyword Arguments
- ✓ Variable-length Arguments
- ✓ Keyword Arguments
- ✓ Non Keyword Arguments
- ✓ Local & Global variables Scope
- ✓ Indentation
- ✓ Lambda Functions

File Handling in Python

- ✓ File objects and Modes of file operations
- ✓ Reading Files
- ✓ Writing & Appending to Files
- ✓ Different functions of files



OOP's Concept in Python

- ✓ Basics of OOPs
- ✓ Class in python
- ✓ What is class?
- ✓ How to define class?
- ✓ How to access class members?
- ✓ What is self?
- ✓ Python Constructors
- ✓ Inheritance in Python
- ✓ Types of Inheritance
- ✓ Polymorphism in Python
- ✓ Types of Polymorphism

Python Module

- ✓ What is Module ?
- ✓ Import Statement
- ✓ OS Module
- ✓ Math Module
- ✓ Random Module
- ✓ NumpyModule
- ✓ MatplotlibModule
- ✓ DateTimeModule
- ✓ JSON Module

GUI Programming

- ✓ Introduction
- ✓ Tkinter programming
- ✓ Tkinter widgets
- ✓ Various Example

Exception in Python

- ✓ What is Exception?
- ✓ Built-in Exceptions
- ✓ Try / Except / Else / Finally / Raise Keyword
- ✓ User-Defined Exceptions

Regular Expression

- ✓ What are regular expressions?
- ✓ The match Function
- ✓ The search Function
- ✓ Matching vs searching
- ✓ Search and Replace
- ✓ Extended Regular Expressions
- ✓ Wildcard

Database Connectivity

- ✓ Database Installation
- ✓ Database Connectivity
- ✓ Insert Record
- ✓ Fetch Data
- ✓ Update Delete





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