Python Introduction

- What is Python?
- What Python can do?
- Features of Python
- Installing Python
- Environment setup for Python
- Hello World in Python
- IDLE Tour

Python Fundamentals

- 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..Statement
- Nested if Statement
- Loop with Else Statement
- The Infinite loop
- The range() function
- Break and Continue Statements

Arrays in Python

- What is Array?
- How to create an Array?
- Accessing Array Elements
- How to slice Arrays
- Mutable Array
- Concatenate Arrays
- Different Methods of Arrays

Functions in Python

- What is a Function?
- How to declare a Function
- Default Function
- Parameterized Function
- Function with return Statement
- Function with multiple return
- Statements
- Default Arguments
- Keyword Arguments
- Variable-length Arguments
- Non-Keyword Arguments
- Local and Global Variable Scope Identation
- Lambda Functions

File Handling in Python

- File Objects and modes of file operations
- Reading Files
- Writing & Appending to Files
- Different Function of Files

OOPS Concept in Python

- Basics of OOPs
- Class in Python
- What is class?
- How to define a 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
- Numpy Module
- MatPlotLib Module
- DateTime Module
- JSON Module

GUI Programming

- Introduction
- TKkinter Programming
- Tkinter Widgets
- Various examples

Exeption in Python

- What is Exeption?
- Buile-in Exeptions
- Try / Except / Else / Finally / Raise Keyword
- User-Defined Exeptions

Regular Expressions

- What are regular Expressions?
- The match Function
- The search Function
- Matching vs Searching
- Search & Replace
- Extended regular Expressions
- Wildcard

Database Connectivity

- Database Installation
- Insert record
- Fetch Data
- Update Delete

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