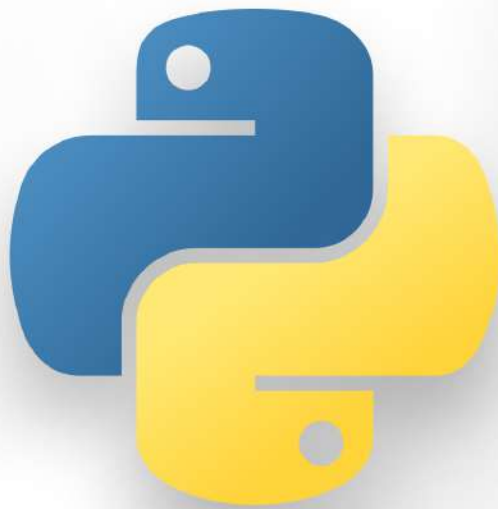




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## About AiiTE



Welcome to AiiTE Academy, where we help you master the latest IT skills for a successful career in technology. Established in April 2019, we are Chennai's top IT training academy, offering high-quality courses in machine learning, artificial intelligence, full-stack development, and quality assurance testing. Our expert instructors provide hands-on training to ensure you gain the practical knowledge needed to excel. With flexible learning options, AiiTE Academy is committed to preparing you for success in the fast-paced IT industry.



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To be recognized as the best IT training institute in Chennai, known for our innovative teaching methods and commitment to producing industry-ready professionals.



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# Introduction To Python

- Python programming history & features
- Python compiler and IDE installation
- Virtual Environment
- Pip - Package Manager

**How to set up an environment for python development.**

## Basics Of Python

- Python Syntax Overview, Indentation, comments
- Variable declaration
- Datatypes and data structure
- Primitive
- Non-primitive
- Operators in python

**How to write a basic Python code, variable declaration datatypes, and operators usage.**

## Operators In Python

- Arithmetic operators
- Assignment operators
- Comparison operators
- Logical operators
- Identity operators
- Membership operators
- Bitwise operators

**How to create and use operators and handling in python.**

## Function In Python

- Syntax of Function
- Function with \*args & \*\*kwargs
- Scope of variables
- Lambda function with map, and filter, reduce method
- DocString
- Modules and standard Modules

**How to create and use functions and different types of arguments, Lambda function, and modules in python.**

## File Handling In Python

- File Opening modes
- Context Manager in python
- **File Operations**
  - Open      • Write
  - Create    • Update
  - Read      • Delete

**How to create and use file operation in python.**

## Exception Handling In Python

- Types of Errors in python
- Exception handling with
  - try ... except    • try... except... finally    • try ... except... else
- Multiple Exception
- Raising Exception
- User-defined Exception

**How to create and use built-in and user-defined exception handling in python.**



# Oops In Python

- **Oops Concepts with programming syntax**

- Class
- Object
- Polymorphism
- Encapsulation
- Inheritance

- **Types of Methods in python**

**How to use Object-oriented programming concepts in python.**

# Core Concepts In Python

- Iterator
- Generator
- Decorator

**How to use core concepts and application of concepts in python.**

# Comprehension In Python

- Comprehensions
- List
- Nested List
  - if statement
  - if...else statement
  - Nested if...else statement
- Dictionary
- Sorting

**How to use comprehensions and sorting in python.**

# Program Flow/Data Flow Of Python

## Conditional Statements :

- if statement
- if ... else statement
- if ... elif...else statement

## Looping :

- for loop
- for with else statement
- while loop
- while with else statement

## Control Statements :

- break
- continue
- pass

## Assert Statements :

How to use conditional, looping, and control statements in python.

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