



Python

(Programming Language)

2 Months Online
CS/IT Training

Learn from Expert Mentor



Empower the youth | Since : 2008



Anyone with moderate computer experience should be able to master the materials in this course.

Job Prospects: Website and App Development

Inheritance

- Inheritance in class and Its types
- Abstract class and interface

A GUI based project

- Exception Handling
- What is Exception
- Handling exception
- Multiple exceptions
- Various variants of exceptions

GUI Programming with tkinter/PyQT package

- Learn how to install tkinter/PyQT and creating a graphical user interface using common widgets and menu system

Plotting graphs in python using matplotlib package

- Learn how to install matplotlib package and creating the various types of graphs like histogram, barchart etc.

- For and while loop
- Break and continue statement
- Pass statement

String, List, Tuple and Dictionaries

- String Operations
- List Operations
- Slicing operations in String and List
- Build-in functions and method of String and List
- Tuple and Dictionaries Operations
- Build-in functions and method of Tuple and Dictionaries

Functions

- Definition and Function calling
- Variable scope and Lifetime
- Arguments and Return statement
- Lambda and Recursive functions

Modules and Packages

- Importing module
- Making your module
- Packages in Python

Advance Concepts

OOPS concepts

- Class and objects
- Inheritance and Polymorphism
- Data Abstraction and Encapsulation
- Containership, Reusability and Delegation
- Advantages of OOP language

Classes and objects

- Defining classes and creating object
- Class method and self argument
- Special methods
- Private and public data members
- Other class concepts

Welcome to Python-Hello, World!

- History of Python
- Features of Python
- Future of Python
- Installation of Python interpreter, IDLE
- Comparison between Python 2.x and Python 3.x
- Executing your first program

Using Variables and Data Types

- Initializing variables
- Data types and Constants
- How to comments
- Type Conversion
- Taking Input from Users
- What is indentation and why it important

Operators and Expressions

- Arithmetic and Comparison Operator
- Assignment and Logical Operator
- Membership and Identity Operator
- Expressions in Python

Decision Control Statements

- Conditional statements
- If and if else statement
- nested if else statement
- if-elif-else statement
- Loop Structures



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