Python Programming

A Quick and Easy Intro to Python Programming.

What Will I Learn?

- Know the basics of Python scripting
- Write your own scripts, and functions
- Implement algorithms using Python language

Description

Python is a great and friendly language to use and learn. It is fun, and can be adapted to both small and large projects. Python will cut your development time greatly and overall, it's much faster to write Python than other languages. This course will be a quick way to understand all the major concepts of Python programming.

We'll begin with the basics of Python, learning about strings, variables, and getting to know the data types. We'll soon move on to the loops and conditions in Python. Afterwards, we'll discuss a bit of file manipulation and functions. By then, you'll know all the basics of Python.

Who is the target audience?

- Even if you haven't touched coding before, it won't matter. The easy step-to-step lectures will quickly guide you through everything you'll need to know about coding, mainly Python.
- This course is here for you to get accustomed to Python and its syntax. And above all, Python is one of the easiest coding languages to learn, and there's a lot you can do with it.

Pre – requisites

- No programming experience is required!
- Access to a Computer or Laptop

Includes

- 25-30 hours classroom training sessions
- A huge number of home assignments to solve
- PDF Handouts
- Certificate of Completion

Curriculum for This Course

Name	Description
Introduction	1. Introduction to Python Interpreter 2. Basic Syntax 3. Variable and Data Types 4. Operators 5. Control Structures
String manipulation	1. Accessing Strings 2. Basic Operations and Functions 3. String slices 4. Decision making
Data Structures	1. Lists 2. Tuples 3. Sets 4. Dictionaries
Functions	1. Defining a function 2. Calling a function 3. Types of functions 4. Function Arguments 5. Anonymous functions 6. Global and local variables
Object Oriented Python	1. Classes and objects 2. Attributes 3. Inheritance
Error Handling	1. Exceptions/Errors 2. Exception Handling 3. Try - Except clause 4. Finally clause 5. User-Defined Exceptions
Access External Data	1. Reading and writing files 2. Accessing data from a relational data source