



Python – The Programming Language

Introduction:

This course aims to teach everyone the basics of programming computers using Python. We cover the basics of how one constructs a program from a series of simple instructions in Python. The course has no pre-requisites and avoids all but the simplest mathematics. Anyone with moderate computer experience should be able to master the materials in this course. Additionally, this course will introduce the core data structures of the Python programming language. We will move past the basics of procedural programming and explore how we can use the Python built-in data structures such as lists, dictionaries, and tuples to perform increasingly complex data analysis. Finally, the object-oriented programming concept will be illustrated and practiced with a capstone 1-day project.

MARBLE ARCHES Training & Events

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Training Period: 3-4 Days

Targeted Groups:

Python is a widely desired language by many companies that require Developers and Data Specialists to work with Python, such as but not only; Uber, Goldman Sachs, PayPal, Netflix, Google, Intel, IBM, NASA, Pixar, Facebook, JP Morgan Chase, Spotify, and a number of other massive companies. Tech startups are drawn to how scalable the language is. Thus, Python language is widely used and desired to be learned by whoever works with technology or try to get a good job in technology companies.

Course Objectives:

This course was designed to let the participants able to:

- ✓ Install Python and write your first program
- ✓ Describe the basics of the Python programming language
- ✓ Use variables to store, retrieve and calculate information
- ✓ Utilize core programming tools such as functions and loops
- ✓ Explain the principles of data structures & how they are used
- ✓ Create programs that are able to read and write data from files
- ✓ Store data as key/value pairs using Python dictionaries
- ✓ Accomplish multi-step tasks like sorting or looping using tuples
- ✓ Explain the basics of Object-Oriented Python.

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Course Content:

Unit 1: Python Essentials

- ✓ Introducing Python Programming
- ✓ Installing and Using Python
- ✓ Variables and Expressions
- ✓ Conditional Statements
- ✓ Looping Statements
- ✓ Functions

Unit 2: Python Data Structures

- ✓ Strings
- ✓ Files
- ✓ Lists
- ✓ Dictionaries
- ✓ Tuples

Unit 3: Python Object Oriented

- ✓ Object Oriented Definitions and Terminology
- ✓ Our First Class and Object
- ✓ Object Life Cycle
- ✓ Object Inheritance

Unit 4: Capstone Project

- ✓ 1-Day Project

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