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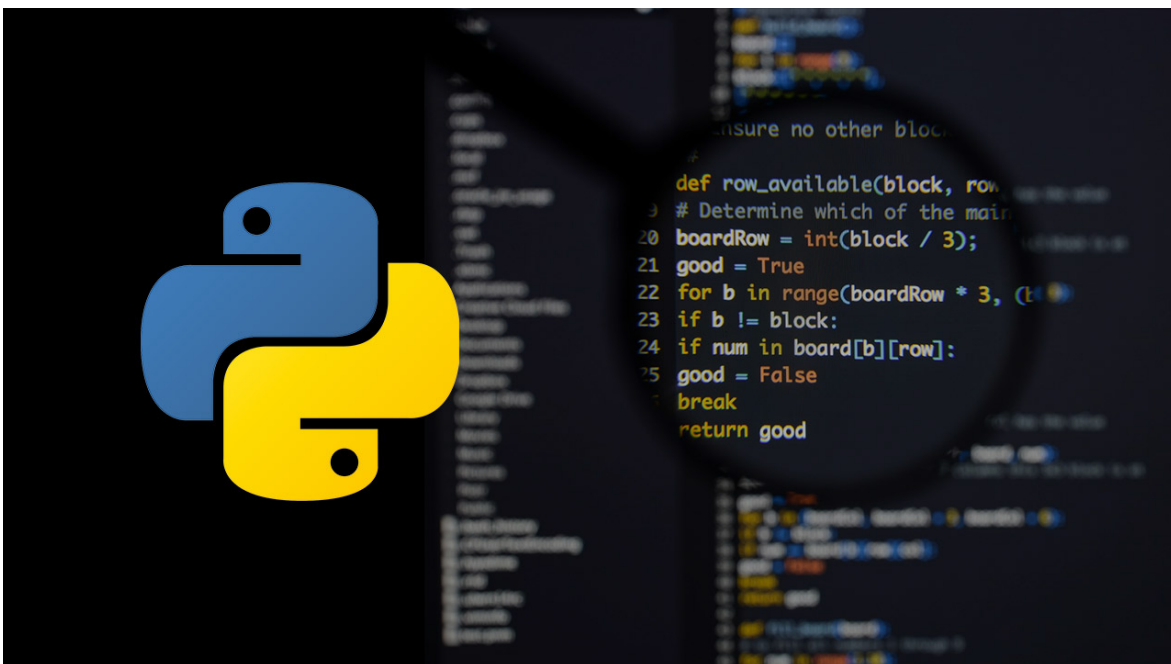
Learning Style: Virtual Classroom

Technology:

Difficulty: Beginner

Course Duration: 2 Days

## Python Programming: Introduction (LO-94010)



### About this course:

Python® has been around for a considerable length of time and it's as yet one of the most popular and versatile languages for programming out there. Regardless of whether you have been creating programming for quite a long time or you're new to programming, Python is a great language addition to your range of abilities. With this course, you become familiar with the basics of programming in Python, and you'll create applications to show your grip on the language.

The normal compensation for a Python Developer is \$115,222 annually.

### Course Objectives:

- Perform and declare tasks on simple data types, including numbers, strings,

and dates.

- Design Python and build up a basic application.
- Manage directories and files with code.
- Explain and use classes, functions, and modules.
- Compose conditional statements and loops.
- Perform and Declare tasks on data structures, including ranges, lists, dictionaries, tuples, and sets.
- Manage exceptions.

## **Audience:**

This course is intended for individuals who need to gain proficiency with the Python programming language in anticipation of utilizing Python to create desktop and web applications.

## **Prerequisites:**

It is suggested, yet not compulsory, that you have an experience of a half year programming in an object-oriented language. Regardless of whether you don't, this course can be valuable to the people who are fresh to programming.

## **Course Outline:**

### **Lesson 1: Setting Up Python and Developing a Simple Application**

**Topic A:** Set Up the Development Environment

**Topic B:** Write Python Statements

**Topic C:** Create a Python Application

**Topic D:** Prevent Errors

### **Lesson 2: Processing Simple Data Types**

**Topic A:** Process Strings and Integers

**Topic B:** Process Decimals, Floats, and Mixed Number Types

### **Lesson 3: Processing Data Structures**

**Topic A:** Process Ordered Data Structures

**Topic B:** Process Unordered Data Structures

### **Lesson 4: Writing Conditional Statements and Loops in Python**

**Topic A:** Write a Conditional Statement

**Topic B:** Write a Loop

## **Lesson 5: Structuring Code for Reuse**

**Topic A:** Define and Call a Function

**Topic B:** Define and Instantiate a Class

**Topic C:** Import and Use a Module

## **Lesson 6: Writing Code to Process Files and Directories**

**Topic A:** Write to a Text File

**Topic B:** Read from a Text File

**Topic C:** Get the Contents of a Directory

**Topic D:** Manage Files and Directories

## **Lesson 7: Dealing with Exceptions**

**Topic A:** Handle Exceptions

**Topic B:** Raise Exceptions

## **Appendix A: Major Differences Between Python 2 and 3**

## **Appendix B: Python Style Guide**

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