

Python Course plan

Become a Python Programmer and learn one of employer's most requested skills of 2019! This Training Program 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. This is the most comprehensive, yet straight-forward, Training Program for students for the Python programming language which includes 3 major projects to create a Python project portfolio!

Training Program will teach you Python in a practical manner, learn by doing a Project. Go ahead and enroll for the Course.

Introduction

- Installation and working with python
- Understanding python variables
- Python basic operators

Data types

- Declaring and using numeric data types
- Using string data type and operations
- Defining List
- Use of tuples data types

String, List & Dictionary

- Building blocks of python programs
- Understanding String in built-in methods
- List manipulation using built-in methods
- Dictionary manipulation
- Programming using Strings, List and Dictionary

Python program

- Flow control conditional blocks using if, else and elif
- Simple for loops
- For loop using range, string, list and dictionary
- Use of While loops
- Loop manipulation using pass, continue, break and else
- Programming using python conditional and loop block

Functions

- Organizing python codes using functions
- Importing modules
- Programming using functions, modules and external packages

File Operations

- Reading files in python
- Writing to files in python
- Understanding read functions, read(), readline() and readlines()
- Understanding write functions, write() and writelines()
- Manipulating file pointers using seek() function

Object Oriented Programming

- Concept of class, object and instances
- Constructor, class attributes and methods
- Inheritance, Overloading and Overriding
- Encapsulation and Abstraction (in brief)
- Retrieving dynamic attributes of classes

Regular Expression

- Pattern matching and searching
- Real time parsing of data using regex
- Password, Email and URL validation using regular expression

Exception Handling

- What is Exception Handling
- Safeguarding file operations using exception handling
- Handling error code with try, catch, else and finally block
- Programming using Exception handling

We here at Ai Adventures make sure that all our courses are **Application Oriented**. All the course material is created accordingly. You will work on multiple projects throughout the course. After the course you will be ready to work on Python projects and develop Python applications on your own. With this foundational knowledge, you will be able to learn many other tools like flask, beautiful soup, nltk, etc. to excel in your career. We are quite confident about our training program. Hence, we **directly offer internships and projects to students after course completion**.

For further query, feel free to visit our office @ FC Road. You can also email us on aiadventures.pune@gmail.com or call us on +91 9921668254.