Python : Microsoft Certification

Python is a general purpose programming language. Hence, you can use the programming language for developing both desktop and web applications. Also, you can use Python for developing complex scientific and numeric applications. Python is designed with features to facilitate data analysis and visualization.

Course Content

1. **Introduction to python**
   - Installation and working with python
   - Understanding python variables
   - Python basic operators
   - Understanding python blocks

2. **Python data types**
   - Declaring and using numeric data types: Int,float
   - Using string data type and string operations
   - Defining list and list slicing
   - Use of tuple data type
   - Use of dictionary data type
   - Use of set data type
   - Use of Date and time data type

3. **Python program flow control**
   - Conditional blocks using if, else and elif
   - Simple for loops in python
   - For loop using range, string, list and dictionaries.
   - Use of while loop

4. **Python functions, modules and packages**
   - Organizing python codes using functions
   - Organizing python projects into modules
   - Importing own modules as well as external modules
   - Understating packages
   - Powerful lambda function in python

5. **In python string, list and dictionary manipulations**
   - Building blocks of python programs
   - Understating string in built in methods
   - List manipulation using built in methods
   - Dictionary manipulation

6. **Python object oriented programming – OOP**
   - Concept of class, object
   - Constructors, class attributes and destructors
   - Inheritance , polymorphism

7. **Python exception handing**
   - Handling exceptions using try excep
   - Programming using exception handing

8. **FileStreams**

AWS Cloud : Certified Cloud Practitioner

The AWS Certified Cloud Practitioner(CLF-C01) examination is intended for individuals who have the knowledge and skills necessary to effectively demonstrate an overall understanding of the AWS Cloud, independent of specific technical roles addressed by other AWS certifications (for example, Solutions Architect-Associate, Developer-Associate, or SysOps Administrator –Associate)

- **Domain 1: Cloud Concepts**
  - 1.1 Define the AWS Cloud and its value proposition
  - 1.2 Identify aspects of AWS Cloud economics
  - 1.3 List the different cloud architecture design principles

- **Domain 2: Security**
  - 2.1 Define the AWS Shared Responsibility model
  - 2.2 Define AWS Cloud security and compliance concepts
  - 2.3 Identify AWS access management capabilities
  - 2.4 Identify resources for security support

- **Domain 3: Technology**
  - 3.1 Define methods of deploying and operating in the AWS Cloud
  - 3.2 Define the AWS global infrastructure
  - 3.3 Identify the core AWS services
  - 3.4 Identify resources for technology support

- **Domain 4: Billing and Pricing**
  - 4.1 Compare and contrast the various pricing models for AWS
  - 4.2 Recognize the various account structures in relation to AWS billing and pricing
  - 4.3 Identify resources available for billing support