QualityThought ®

Advance Python

Mode of Training: Online, Classroom, Corporate

Faculty: Mr. PHANI
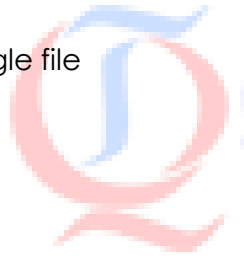
Course Duration: 45 Days

Course Curriculum

ADVENSED PYTHON

File Handling:

- What is a file?

- Opening a file

- Reading data from a file

- writing data to a file

- Closing a file

- working with the methods of file objects

- Diff b/w fread(),freadline(),freadlines()

- Merging multiple files into single file

- Replacing the content of file

- Working with directories

- working CSV files

- Assignments

Oops concepts:

- Introduction to Oop's programming

- Features of OOPS

- Classes and Objects

- Encapsulation

- Abstraction

- Inheritance

- Polymorphism

Classes and Objects:

- Creating a class

- The Self Variable

- Types of variables

- Types of Methods

- Constructor

- Namespaces

- Passing Members of one Class to Another Class

- Inner classes
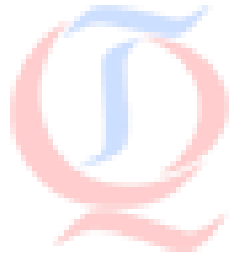
Inheritance and Polymorphism:

- Constructors in inheritance

- Overriding super class constructors and methods

- The super() Method

- Types of inheritance

- Method Resolution Order(MRO)

- Polymorphism

- Operator overloading

- Method overloading

Abstract classes and Interfaces:

- Abstract method and Abstract class

- Interfaces in python

- Abstract classes vs interfaces

- Assignments

Exception Handling:

- Types of errors

- Compile time errors

- Runtime errors

- Logical errors

- What is exception?

- Need of exception Handling

- Predefined exceptions

- try, except and finally clauses

- Handling multiple exceptions

- Nested try, except and finally blocks

- Raise , assert statements

- Assignments

Regular Expressions:

- Regular expressions syntax

- Understanding regular expressions

- Special characters

- Character classes

- Forming regular expressions

- Matching at beginning or end

- Match(),Search() and Sub() functions

- Splitting a string

- Replacing Text

Multi-Threading:

- Introduction

- Threading Module

- Defining a thread

- Starting a thread

- *Threads synchronization

- Multithreaded Priority Queues

Network Programming:

- Introduction to network programming

- Protocols

- Sockets

- Connect to server

- Sending data

- Receiving data

- Assignments

Database Connectivity

- Introduction to RDBMS

- Installation of MySQL database access

- Creating MySQL database instances

- Establishing connection with MySQL

- Executing SQL queries

- Creating Tables using Python

- Inserting Rows into a Table

- Deleting Rows from a Table

- Updating Rows in a Table

- Assignments

Python XML and JSON parsers:

- How to parse XML

- How to create XML node

- How to Parse JSON

- Assignments

Graphical User Interface:

- GUI in python

- The Root Canvas

- Working with containers

- Canvas, Frames

- Widgets

- Arranging widgets in a frame

- Button widget, Label Widget

- Check Button, Radio Button

- List box Widget ,Menu Widget
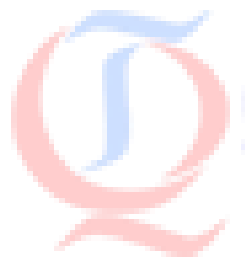
Data analytics:

- Introduction to big data

- Pandas

- Numpy

- Matplotlib

Introduction to Python web framework:

- What is a Framework

- Introduction to Django

- Django – Design Philosophies

- History of Django

- Why Django and Features

- Environment setup

- MVC Architecture vs MVT Architecture

- Django MVC – MVT Pattern

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- IOT Training

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Data Science & Blockchain

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- Blockchain Training

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- Appium Training
- Web services Testing Training
- Security Testing Training
- Performance Testing Training
- TOSCA Training
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- Sail Point IIQ

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