**Python Advance Topics – Course Content**

* What is Encapsulation
* What is Abstraction
* What is Polymorphism
* Class and Object in Python
* Constructor in Python
* Instance Variable in Python
* Class Variable or Static Variable in Python
* Namespace in Python
* Instance Method in PythonAccessor or Getter Method and Mutator or Setter Method in Python
* Class Method in Python
* Static Method in Python
* Passing Member of one Class to another Class in Python
* Nested Class in Python
* Inheritance in Python
* Why do we need Inheritance in Python
* Single Inheritance in Python
* Constructor in Inheritance in Python
* Constructor Overriding in Python
* Constructor with Super Method or Call Parent Class Constructor in Child Class in Python
* Multilevel Inheritance in Python
* Hierarchical Inheritance in Python
* Multiple Inheritance and Method Resolution Order in Python
* Polymorphism in Python
* Duck Typing in Python
* Strong Typing in Python
* Method Overloading in Python
* Method Overriding and Method with super in Python
* Operator Overloading in Python
* Module & Package in Python
* Abstract Class Abstract Method and Concrete Method in Python
* Interface in Python
* Difference between Abstract Class and Interface in Python
* time Module in Python
* datetime, date , time, timedelta Class in Python
* Multitasking in Python
* Thread and Multithreading in Python
* Main Thread in Python
* Creating a Thread without using a Class in Python
* Set and Get Thread Name in Python
* Creating a Thread by creating Child Class to Thread Class in Python
* Thread Child Class with Constructor in Python
* Creating a Thread without Creating Child Class to Thread Class in Python
* Single Tasking using a Thread in Python
* Multitasking using Multiple Thread in Python
* Thread Race Condition in Python
* Thread Synchronization Lock in Python
* Thread Synchronization RLock in Python
* Thread Synchronization Semaphore and BoundedSemaphore in Python
* Thread Communication Event in Python
* Thread Communication Condition in Python
* Thread Communication Queue in Python
* Daemon Thread in Python
* What is File and File Handling in Python
* Text Mode and Binary Mode in Python
* Opening , Closing a File in Python
* Text File Modes and Binary File Modes in Python
* File Object Variables in Python
* Reading , Writing Data to File using write Method in Python
* tell and seek Method in Python
* with Statement in Python
* How to Download and Install MySQL and Python Connector
* How to Create Check and Close Database Connection in Python
* How to Create and Show Database in Python
* How to make Connection to Database in Python
* How to Create and Show Database Tables in Python
* How to Insert Data in Table in Python
* How to Delete Data from Table in Python
* How to Update Data in Table in Python
* How to Fetch Data from Table using fetchone Method in Python
* How to fetch Data from Table using fetchall Method in Python
* How to Fetch Data from Table using fetchmany Method
* How to Fetch Data from Table with WHERE Clause in Python
* Parameterized Query in Python
* How to Insert Data into Table Parameterized Query Tuple in Python
* Insert Data into Table using executemany Parameterized Query Tuple in Python
* Input from user into Table Parameterized Query Tuple in Python
* How to Insert Data into Table Parameterized Query Dictionary in Python
* Insert Data into Table using executemany Parameterized Query Dictionary in Python
* How to Delete Data from Table Parameterized Query in Python
* How to Update Data in Table Parameterized Query in Python
* Retrieve Single Row with WHERE Clause Parameterized Query Tuple in Python
* Retrieve Multiple Row with WHERE Clause Parameterized Query Tuple in Python
* Retrieve Single Row with WHERE Clause Parameterized Query Dictionary in Python
* Retrieve Multiple Row with WHERE Clause Parameterized Query Dictionary in Python
* Retrieve Multiple Row with WHERE Clause Parameterized Query Dictionary in Python
* Prepared Statement in Python
* Exception Handling and Builtin Exception in Python
* Assert Statement in Python
* User Defined Exception in Python
* Difference between Error and Exception in Python
* Difference between Error and Warning in Python