## **Understanding of core MySQL connection, Sqlalchemy, SqlalchemyORM, flask-sqlalchemy**

**MySQL Connection using Core python:**

In core python:

**## crating database in the core python**

import mysql.connector

mydb= mysql.connector.connect(host=’localhost’,user=’root’,password=’password you set’)

Cur=mydb.cursor()

Cur.execute(‘create database db1’)

**## creating table in the database:**

import mysql.connector

mydb= mysql.connector.connect(host=’localhost’,user=’root’,password=’password you set’,database=’db1)

Cur=mydb.cursor()

Query=’create table student (name string(10),id int,)’

Cur.execute(Query)

**##Fetch data from the table**

import mysql.conenctor

mydb=mysql.connector.connect(host=’localhost’,user=’root’,’password’:’you already set’, database=’db1’)

Cur=mydb.cursor()

Query=’select \* from student’

Cur.execute(Query)

**## inserting multiple values into the table**

import mysql.connector

mydb = mysql.connector.connect(host=’localhost’,user=’root’,password=’you set ’,database=’db1’)

Cur=mydb.cursor()

query=’insert into students(‘name’,id) values(‘%s %s %s’)’

student\_list=[(‘vaishanavi’,1),(‘shreya’,2),(‘pooja’,3)]

mydb.execute(query, student\_list)

**## In general syntax for using core mysql database connection in python:**

**import mysql.connector**

**mydb= mysql.connector.connect(host=’localhost’,user=’root’,password=’you set’, database’=’ you created one’)**

**Cur=mydb.cursor()**

**query =’query to do any operation on the data’**

**Cur.execute(query)**

**SQLAlchemy in python: CRUD Operations**

**## creating the database in the SQLAlchemy**

F

from sqlalchemy import create\_engine,text

engine= create\_engine(url=’sqlite3:///sample1.db’,echo=True)

with engine.connect() as conn:

conn.execute(text(any query ))

**## creating the table in the database**

from sqlalchemy import Table, Integer, Column, String, create\_engine,Metadata

engine=create\_engine(url=’sqlite3:///sample.db’,echo=True)

Meta\_obj=Metaobj()

User\_table=Table( ‘Users’,

column(‘id’,Integer,primary\_key=True),

column(‘name’,String(20),nullable=False))

**## inserting the values into the table**

from sqlalchemy import insert, create\_engine

statement =insert(user\_table)

with engine.connect() as conn:

conn.execute(statement,[

{ 'name':’user1’,'fullname':’user 1’},

{'name':'user2','fullname':'user2'},

{'name':'user3','fullname':'user3'}])

conn.commit()

