```
import Sqlite3
Cohn = Salitez. connect ( 'mydatabase1. salite)
Cursor = conn. cursor ()
 print ("opened database Successfully")
 opened database successfully
Performing create operation
 Cursor. execute ("Create Table Collège
          (ID Int primary key NOT NULL,
 Name Text Not Null,
MAGE THE NOT NULL,
            Address CHAR(50),
            Marks Int); "')
                       interest the state of the state of
import galitez
 conn = Sqlite 3. Connect ('mydatabaser. sqlite')
 Cursor = Conn. Cursor ()
 cursor. execute ("Insert Into college (ID, name, age, address,
                   marks) \
       Values (1, 'Dinesh', 21, 'Delhi', 400)");
  cursor. execute ("Insert into college (ID, name, age, addrey,"
                    marks) \
       values (2, 'sathish', 21, Bargalore', 450)");
  Cursor. execute ("Insert into college (ID, name, age, address,
```

Problem Solving Using Python and R Lab Lab12. Database Programming using sqlite3

Question1. Perform CRUD operations on Student Table as outlined in the reference (https://medium.com/analytics-vidhya/programming-with-databases-in-python-using-sqlite-4cecbef51ab9).

Cursor-execute (3, 'kumar', 21, 'Hyderabad', 400)"); Cursor. execute ("Insert into college (ID, Name, Age, Address, · marks) \ values (4, 'Saro', 21, 'Kolkata', 650)"); Conn. commit (). conniclosec) performing read operation import 8alite3 conn = Salite3. connect ('mydatabase1. salite') Cursor = conn. cursor() for row in cursor. execute ("select ID, name, marks from college"): print ("ID =", row [o]) print ("Name =", row[1]) print ("Marks = ", row[2], "\")

```
performing update operation
import Salite3
conn = Sqlite3. connect ('mydatabase1. Sqlite')
Cursor = Conn. Cursor ()
conn. execute ("update College Set marks = 400 where ID=4")
 (onn. commit()
 for you in cursor execute ("select ID, name, marks from
                                  college"):
     print ("ID =", row[o])
      print ("Name = ", row[1])
      print (" marks = ", row [2], "In")
 conn.commit()
 conn. close ()
performing Delete operation
 import salites
  Conn = Sqlittez. Connect ( mydatabase 1. Sqlite')
  carror = conn-curror c)
  con execute ("Delete from Collège Where ID = 3")
   conh. commit()
   for row in cursor execute ("Select ID, hame, address, marks
                                   from college"):
        print ("ID = ", row[0])
        print ( "Name = " row[1])
         print ("Addres = ", row[2])
         print ("marks =", row[3], "\n")
     conn. commit()
```

conn. close ()

```
Question2. Open the table MyRestaurants.db that you have created for NoSQL course
```

```
import
        Sqlite 3
 Conn = Salite 3. connect ( 'my_database.salite")
 Cursor = Conn. cursor()
  cursor. execute ("Insert into myrestaurant (Name, Foodtype,
                   Distance, Lastvisit, Ilike) \
        values ('apple-leaf', 'nonveg', 15, '01-Jan-2020', 1)");
  conn. commit ()
   conn-closec)
Question3. Write a SQL query that returns all restaurants in your table MyRestaurants.db.
 import Sqlite3
 Conn = Salite 3. connect ('my -database salite')
 cursor = conn·cursor()
  for row in cursor execute ("select name from myrestaurant")
     print ("Name = ", row[0])
   conn. commit()
   Conn. close ()
```

Question4. Write a SQL query that returns the names of restaurants in descending order that makes Chinese foods.

```
import 8qlite3

conn = Sqlite3. connect ('my-database. Sqlite')

cursor = conn. cursor()

for you in cursor. execute ("Select.name, Foodtype from my restaurant where Foodtype = 'chinese' Group by name, Foodtype order by name, Foodtype desc"):

print ("Hame = ", yow [o]).

print ("Foodtype = ", yow [i])

conn. (ommit()

conn. Close()
```