PART - B

5. Create a table student table (regno, name and marks in 3 subjects) using MySQL and perform the followings a. To accept the details of students and store it in database. b. To display the details of all the students c. Delete particular student record using regno.

Code:

```
import sqlite3

import sys

con=sqlite3.connect('std.db')

print("Opened database successfully")

c=con.cursor()

c.execute('''CREATE TABLE IF NOT EXISTS student

       (regno   INT  PRIMARY KEY   NOT NULL,

        name          Text         not null,

        mark1         REAL,

        mark2         Real,

        mark3         REAL);''')


print("Table student created successfully")


def student_exists(rno):

   data=(rno,)

   sql="Select*from student where regno=?"

   r=c.execute(sql,data).fetchall()

   if len(r)>0:

      return True

   else:

      return False
```

```
def add_student():
    regno=input("Enter the register number :")
    if(student_exists(regno)==True):
        print("Student already exists \n Try again \n")
    else:
        name=input("Enter student name :")
        mark1=float(input("Enter mark in subject1 :"))
        mark2=float(input("Enter mark in subject2 :"))
        mark3=float(input("Enter mark in subject3 :"))
        data=(regno,name,mark1,mark2,mark3)
        sql="Insert into student values(?,?,?,?,?)"
        c.execute(sql,data)
        con.commit()
        print("Student added successfully")



def display_student ():
    sql="Select * from student"
    r=c.execute(sql).fetchall()
    if len(r)==0:
        print("There are no records")
    for i in r:
        print("-"*50)
        print("Student register number :",i[0])
        print("Student name :",i[1])
        print("Mark in subject1 :",i[2])
        print("Mark in subject2 :",i[3])
```

```
        print("Mark in subject3 :",i[4])
        print("-"*50)

def remove_student():
    regno=input("Enter the register number of the student to be removed :")
    if(student_exists(regno)):
        sql="Delete from student where regno=?"
        data=(regno,)
        r=c.execute(sql,data)
        con.commit()
        print("Student removed.")
    else:
        print("Student does not exists \n Try again\n")

def menu():
    print('''
    1.Add student.
    2.Display all student details.
    3.Remove student.
    4.Exit''')
    ch=int(input("Enter your choice :"))
    if ch==1:
        add_student()
    elif ch==2:
        display_student()
    elif ch==3:
        remove_student()
```

```
    elif ch==4:
        c.execute("Drop table student")
        sys.exit()
    else:
        print("Please enter correct choice")
    menu()
menu()
```

Output:

```
Opened database successfully
Table student created successfully

    1.Add student.
    2.Display all student details.
    3.Remove student.
    4.Exit
Enter your choice :1
Enter the register number :101
Enter student name :Deeksha
Enter mark in subject1 :90
Enter mark in subject2 :67
Enter mark in subject3 :80
Student added successfully

    1.Add student.
    2.Display all student details.
    3.Remove student.
    4.Exit
Enter your choice :1
Enter the register number :102
Enter student name :Keerthi
Enter mark in subject1 :70
Enter mark in subject2 :80
Enter mark in subject3 :65
Student added successfully

    1.Add student.
    2.Display all student details.
    3.Remove student.
    4.Exit
Enter your choice :2
----------------------------------------
Student register number : 101
Student name : Deeksha
Mark in subject1 : 90.0
Mark in subject2 : 67.0
Mark in subject3 : 80.0
----------------------------------------
```

```
--------------------------------------------------
Student register number : 102
Student name : Keerthi
Mark in subject1 : 70.0
Mark in subject2 : 80.0
Mark in subject3 : 65.0
--------------------------------------------------

    1.Add student.
    2.Display all student details.
    3.Remove student.
    4.Exit
Enter your choice :3
Enter the register number of the student to be removed :102
Student removed.

    1.Add student.
    2.Display all student details.
    3.Remove student.
    4.Exit
Enter your choice :2
--------------------------------------------------
Student register number : 101
Student name : Deeksha
Mark in subject1 : 90.0
Mark in subject2 : 67.0
Mark in subject3 : 80.0
--------------------------------------------------

    1.Add student.
    2.Display all student details.
    3.Remove student.
    4.Exit
Enter your choice :3
Enter the register number of the student to be removed :101
Student removed.
```

```
    1.Add student.
    2.Display all student details.
    3.Remove student.
    4.Exit
Enter your choice :2
There are no records

    1.Add student.
    2.Display all student details.
    3.Remove student.
    4.Exit
Enter your choice :4
```