Practical No 10

UID: 19MCA8022

Branch: MCA 4(A)

Name: Kiran Aryal

Q1 Develop a GUI using tkinter for Registration form and perform its connectivity with the MySQL database. Write code to save the data entered in different widgets in database.

Ans

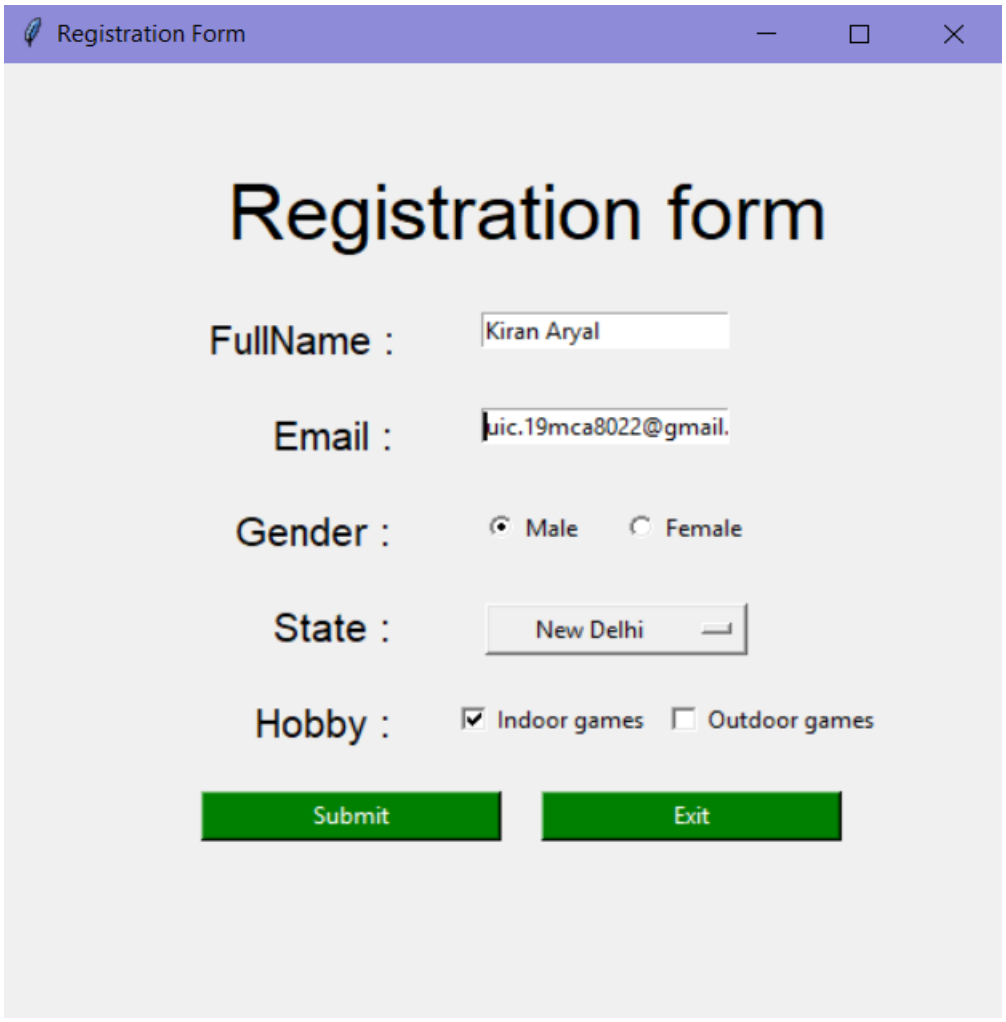
```
from tkinter import *
import sqlite3


root = Tk()
root.geometry('500x500')
root.title("Registration Form")


Fullname=StringVar()
Email=StringVar()
var = IntVar()
c=StringVar()
var1= IntVar()
```

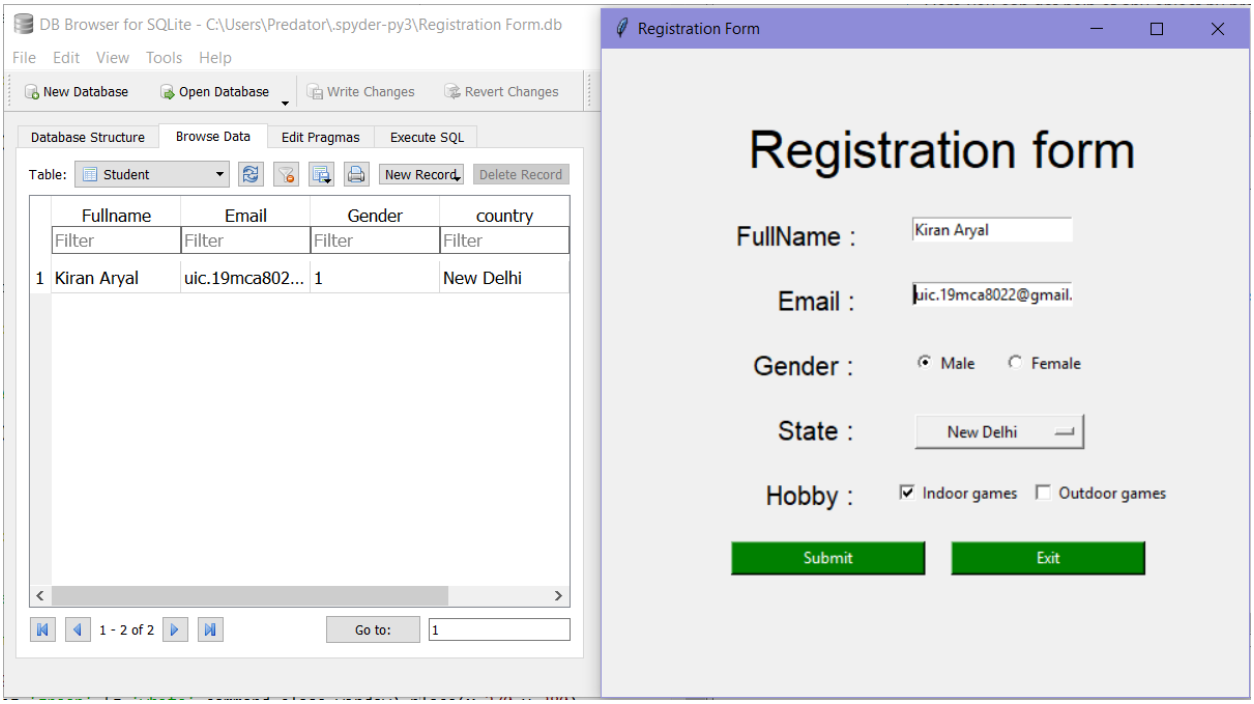
```
def close_window():
    root.destroy()


def database():
    name1=Fullname.get()
    email=Email.get()
    gender=var.get()
    country=c.get()
    hobby=var1.get()
    conn = sqlite3.connect('Registration Form.db')
    with conn:
      cursor=conn.cursor()
     cursor.execute('CREATE TABLE IF NOT EXISTS Student (Fullname TEXT,Email
TEXT,Gender TEXT,country TEXT,Hobby TEXT)')
     cursor.execute('INSERT INTO Student (FullName,Email,Gender,country,Hobby)
VALUES(?,?,?,?,?)',(name1,email,gender,country,hobby,))
     conn.commit()


label_0 = Label(root, text="Registration form",width=20,font=("bold", 30))
label_0.place(x=30,y=53)


label_1 = Label(root, text="FullName :",width=20,font=("bold", 15))
```

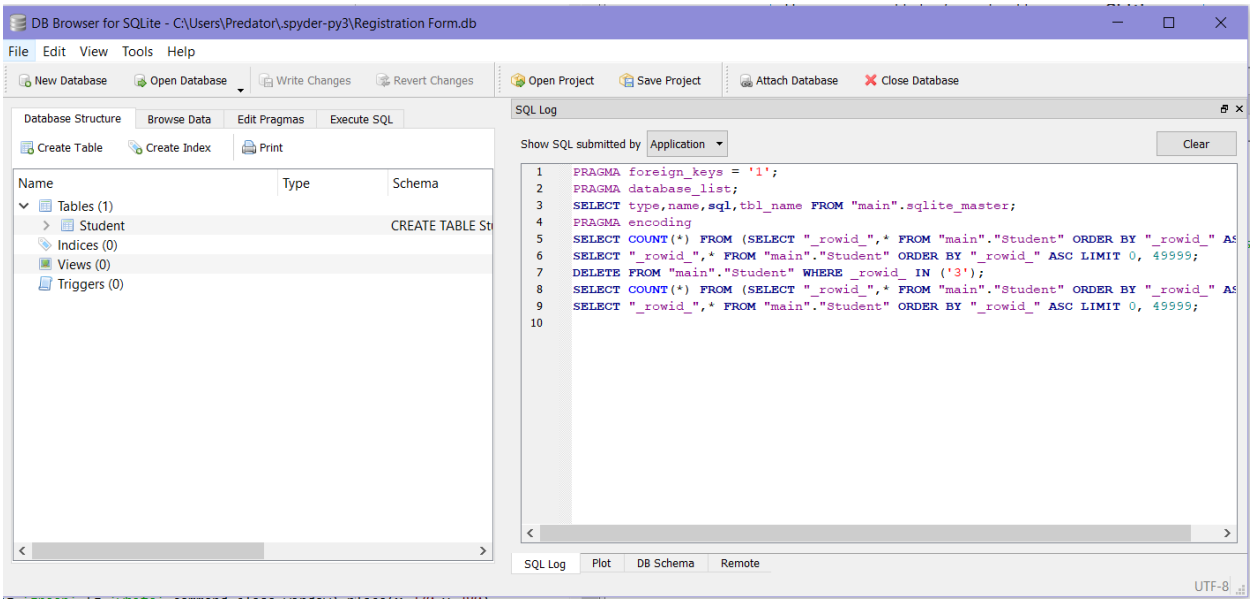
```
label_1.place(x=38,y=130)

entry_1 = Entry(root,textvar=Fullname)
entry_1.place(x=240,y=130)

label_2 = Label(root, text="Email :",width=20,font=("bold", 15))
label_2.place(x=53,y=180)

entry_2 = Entry(root,textvar=Email)
entry_2.place(x=240,y=180)

label_3 = Label(root, text="Gender :",width=20,font=("bold", 15))
label_3.place(x=43,y=230)

Radiobutton(root, text="Male",padx = 5, variable=var,
value=1).place(x=235,y=230)
Radiobutton(root, text="Female",padx = 20, variable=var,
value=2).place(x=290,y=230)

label_4 = Label(root, text="State :",width=20,font=("bold", 15))
label_4.place(x=53,y=280)
```

```
list1 = ['New Delhi','Punjab','Haryana','Himatchal
Pardesh','Uttrakhand','Mumbai'];


droplist=OptionMenu(root,c, *list1)

droplist.config(width=15)

c.set('select your country')

droplist.place(x=240,y=280)


label_4 = Label(root, text="Hobby :",width=20,font=("bold", 15))

label_4.place(x=48,y=330)

var2= IntVar()

Checkbutton(root, text="Indoor games", variable=var1).place(x=225,y=330)


Checkbutton(root, text="Outdoor games", variable=var2).place(x=330,y=330)


Button(root,
text='Submit',width=20,bg='green',fg='white',command=database).place(x=100,y
=380)

Button(root,
text='Exit',width=20,bg='green',fg='white',command=close_window).place(x=270,
y=380)

root.mainloop()
```

output:


Registration Form
Registration form
FullName :
Kiran Aryal
Email :
uic.19mca8022@gmail.
Gender :
Male
Female
State :
New Delhi
Hobby :
Indoor games
Outdoor games
Submit
Exit


DB Browser for SQLite - C:\Users\Predator\.spyder-py3\Registration Form.db
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Database Structure
Browse Data
Edit Pragmas
Execute SQL
Table: Student
New Record
Delete Record
Fullname
Email
Gender
country
Filter
1 Kiran Aryal uic.19mca802... 1 New Delhi
1 - 2 of 2
Go to: 1
Registration Form
Registration form
FullName :
Kiran Aryal
Email :
uic.19mca8022@gmail.
Gender :
Male
Female
State :
New Delhi
Hobby :
Indoor games
Outdoor games
Submit
Exit


DB Browser for SQLite - C:\Users\Predator\.spyder-py3\Registration Form.db
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Open Project
Save Project
Attach Database
Close Database
Database Structure
Browse Data
Edit Pragmas
Execute SQL
Create Table
Create Index
Print
Name
Type
Schema
Tables (1)
Student
CREATE TABLE St
Indices (0)
Views (0)
Triggers (0)
SQL Log
Show SQL submitted by
Application
Clear
1 PRAGMA foreign_keys = '1';
2 PRAGMA database_list;
3 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
4 PRAGMA encoding
5 SELECT COUNT(*) FROM (SELECT "_rowid_",* FROM "main"."Student" ORDER BY "_rowid_" As
6 SELECT "_rowid_",* FROM "main"."Student" ORDER BY "_rowid_" ASC LIMIT 0, 49999;
7 DELETE FROM "main"."Student" WHERE _rowid_ IN ('3');
8 SELECT COUNT(*) FROM (SELECT "_rowid_",* FROM "main"."Student" ORDER BY "_rowid_" As
9 SELECT "_rowid_",* FROM "main"."Student" ORDER BY "_rowid_" ASC LIMIT 0, 49999;
10
SQL Log
Plot
DB Schema
Remote
UTF-8

Q2. Write code to display all record entered through registration form in the database.

Ans:

```
import sqlite3


con = sqlite3.connect('Registration Form.db')


def sql_fetch(con):
    cursorObj = con.cursor()
    cursorObj.execute('SELECT * FROM STUDENT')
    rows = cursorObj.fetchall()
    for row in rows:
        print(row)


sql_fetch(con)
```

output:

```
In [2]: runfile('C:/Users/Predator/.spyder-py3/databasefetch.py', wdir='C:/Users/
Predator/.spyder-py3')
('Kiran Aryal', 'uic.19mca8022@gmail.com', '1', 'New Delhi', '1')
```