Q 1

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.

#CODE

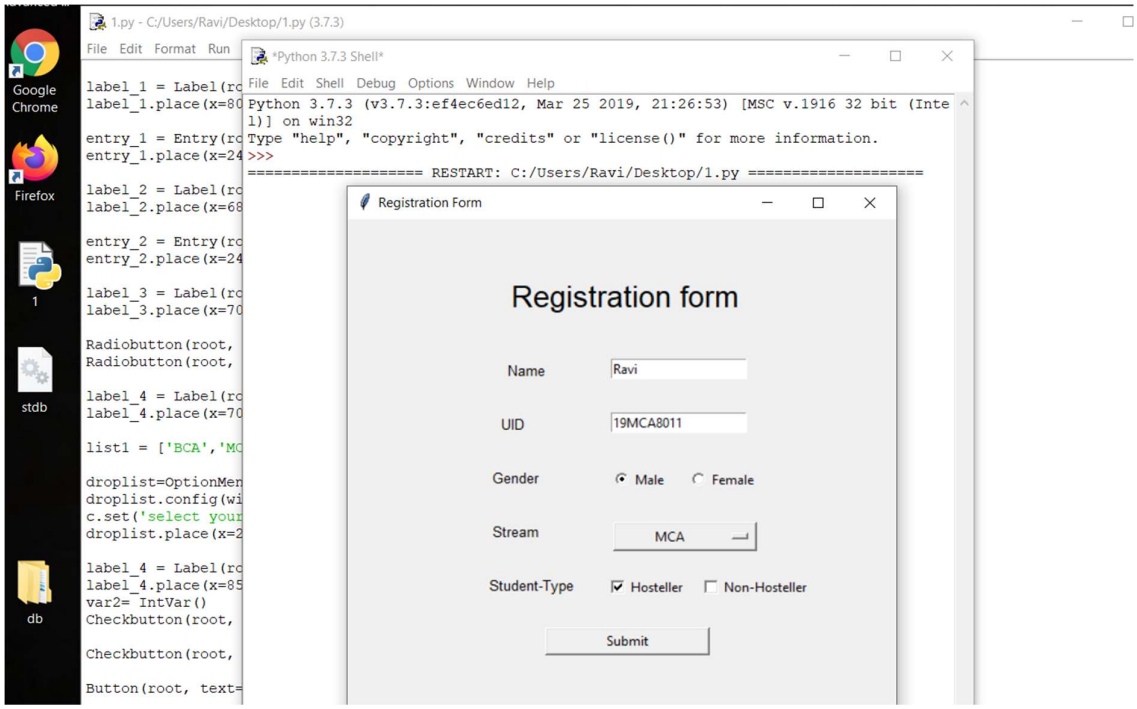
```
from tkinter import *
import sqlite3


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


sname=StringVar()
suid=StringVar()
var = IntVar()
c=StringVar()
var1= IntVar()


def database():
  name1=sname.get()
  useri=suid.get()
  gender=var.get()
```

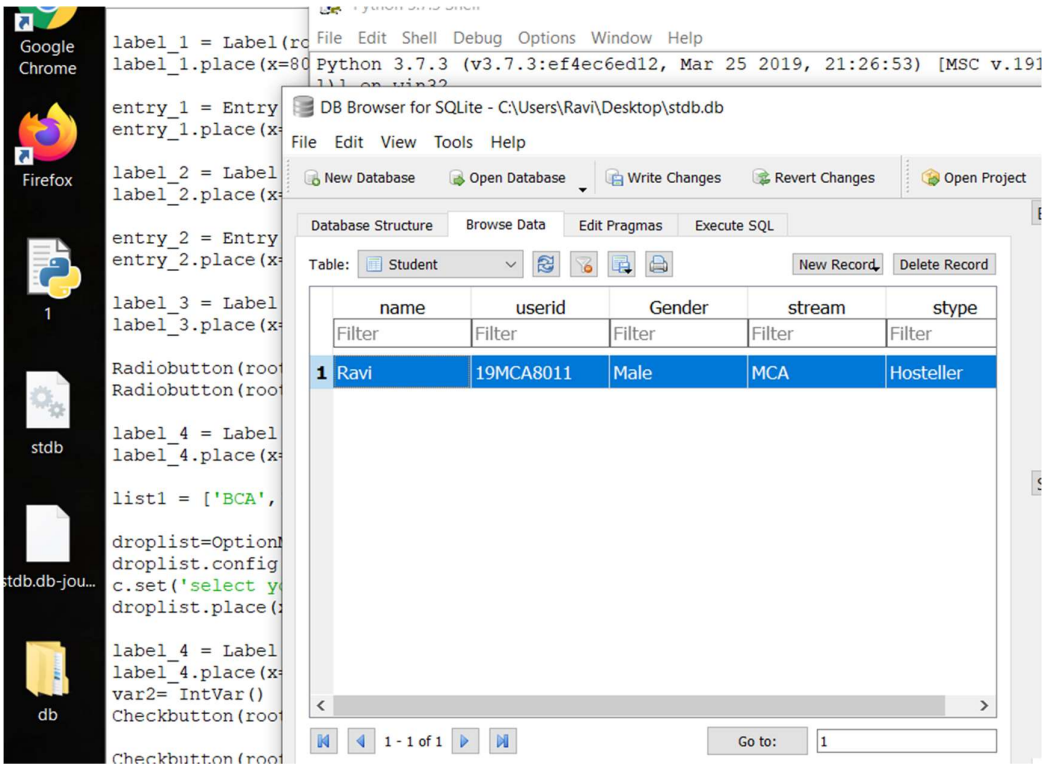
```
  if(gender == 1):
    n_gender='Male'
  else:
    n_gender='Female'
  stream=c.get()
  sttp=var1.get()
  if(sttp == 1):
    stype='Hosteller'
  else:
    stype='Non-Hosteller'
  conn = sqlite3.connect('stdb.db')
  with conn:
    cursor=conn.cursor()
  cursor.execute('CREATE TABLE IF NOT EXISTS Student (name
TEXT,userid TEXT,Gender TEXT,stream TEXT,stype TEXT)')
  cursor.execute('INSERT INTO Student
(name,userid,Gender,stream,stype)
VALUES(?,?,?,?,?)',(name1,useri,n_gender,stream,stype))
  conn.commit()
label_0 = Label(root, text="Registration
form",width=20,font=("bold", 20))
label_0.place(x=90,y=53)
```

```
label_1 = Label(root, text="Name",width=20,font=("bold", 10))
label_1.place(x=80,y=130)

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

label_2 = Label(root, text="UID",width=20,font=("bold", 10))
label_2.place(x=68,y=180)

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

label_3 = Label(root, text="Gender",width=20,font=("bold", 10))
label_3.place(x=70,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="Stream",width=20,font=("bold", 10))
```

```
label_4.place(x=70,y=280)

list1 = ['BCA','MCA','BTECH','MTECH','BBA','MBA'];

droplist=OptionMenu(root,c, *list1)

droplist.config(width=15)

c.set('select your stream')

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

label_4 = Label(root, text="Student-Type",width=20,font=("bold",
10))

label_4.place(x=85,y=330)

var2= IntVar()

Checkbutton(root, text="Hosteller",
variable=var1).place(x=235,y=330)

Checkbutton(root, text="Non-Hosteller",
variable=var2).place(x=320,y=330)


Button(root,
text='Submit',width=20,fg='black',command=database).place(x=180,
y=380)


root.mainloop()
```

OUTPUT:


1.py - C:/Users/Ravi/Desktop/1.py (3.7.3)
File Edit Format Run
Python 3.7.3 Shell
File Edit Shell Debug Options Window Help
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 21:26:53) [MSC v.1916 32 bit (Inte
1)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:/Users/Ravi/Desktop/1.py ==========
Registration Form
Registration form
Name
Ravi
UID
19MCA8011
Gender
Male
Female
Stream
MCA
Student-Type
Hosteller
Non-Hosteller
Submit
Google Chrome
Firefox
1
stdb
db


DB Browser for SQLite - C:\Users\Ravi\Desktop\stdb.db
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Open Project
Database Structure
Browse Data
Edit Pragmas
Execute SQL
Table: Student
New Record
Delete Record
name
userid
Gender
stream
stype
Filter
1
Ravi
19MCA8011
Male
MCA
Hosteller
1 - 1 of 1
Go to:
1
Google Chrome
Firefox
1
stdb
db

Q 2

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

#CODE

```
from tkinter import *
import sqlite3 as db


def fetchdata():
   conn=db.connect('stdb.db')
   cur = conn.cursor()
   cur.execute("SELECT * FROM Student")
   list0 = cur.fetchall()
   cur.close()
   conn.close()
   output=''
   for x in list0:
      output = output+'Name'+'   '+'UID'+'    '+'Gender'+' '+'Stream'+' '+'S-TYPE'+'\n'+x[0]+' '+x[1]+' '+x[2]+'   '+x[3]+'    '+x[4]
   return output
master = Tk()
text = Text(master, height=5, width=40)
text.grid(row=4, columnspan=2)
```

```
Button(master, text='Fetch Data', command=lambda:
text.insert(END, fetchdata())).grid(row=2, column=0)
mainloop()
```

OUTPUT: