Python

Om Ghanshyam Bhamare

SE A 3

Github: https://github.com/ombhamare4/Python-SEM4.git

Assignment 3

Q1. A python program to create three push buttons and change the background of the frame according to the button clicked by the user.

1] First Frame Without Bg color

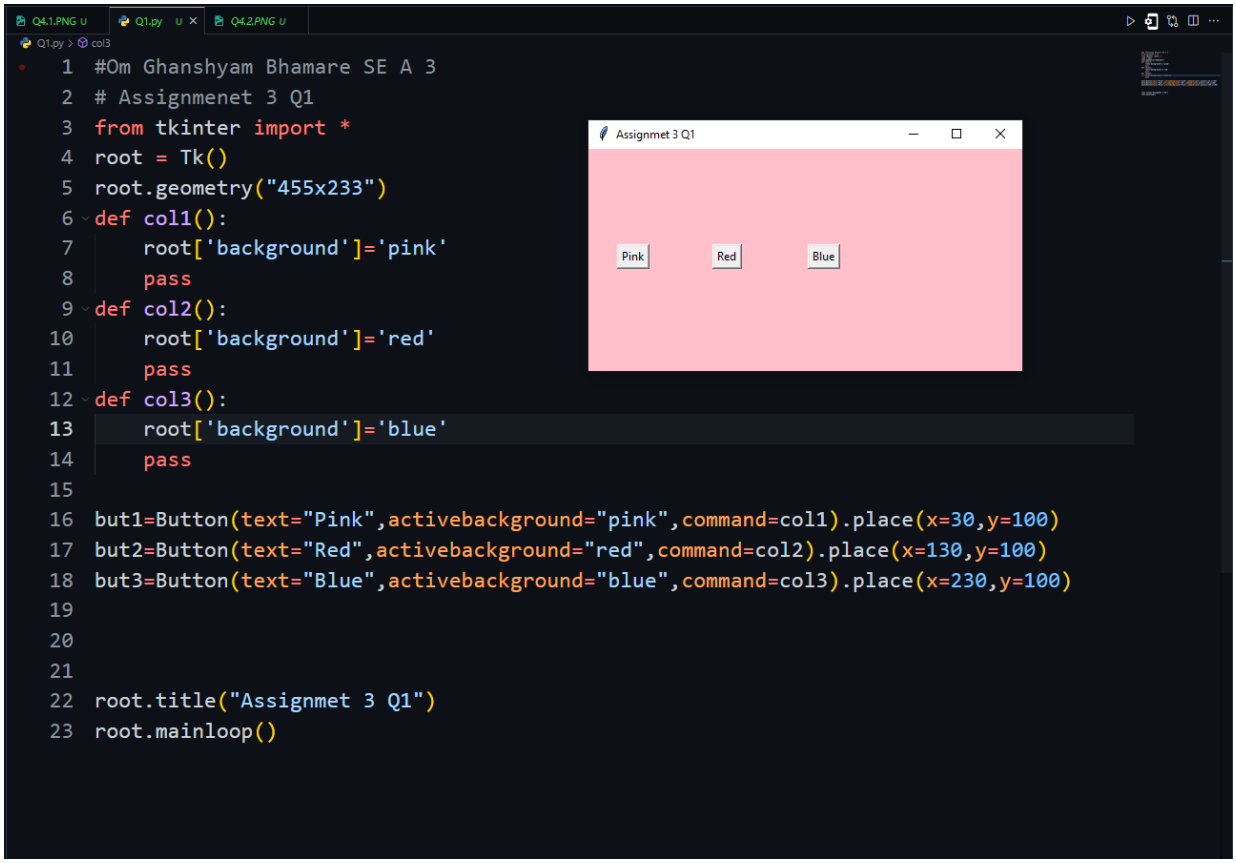
```python
#Om Ghanshyam Bhamare SE A 3
# Assignmenet 3 Q1
from tkinter import *
root = Tk()
root.geometry("455x233")
def col1():
    root['background']='pink'
    pass
def col2():
    root['background']='red'
    pass
def col3():
    root['background']='blue'
    pass

but1=Button(text="Pink",activebackground="pink",command=col1).place(x=30,y=100)
but2=Button(text="Red",activebackground="red",command=col2).place(x=130,y=100)
but3=Button(text="Blue",activebackground="blue",command=col3).place(x=230,y=100)



root.title("Assignmet 3 Q1")
root.mainloop()
```

2]Screen After click on pink button

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root.title("Assignmet 3 Q1")
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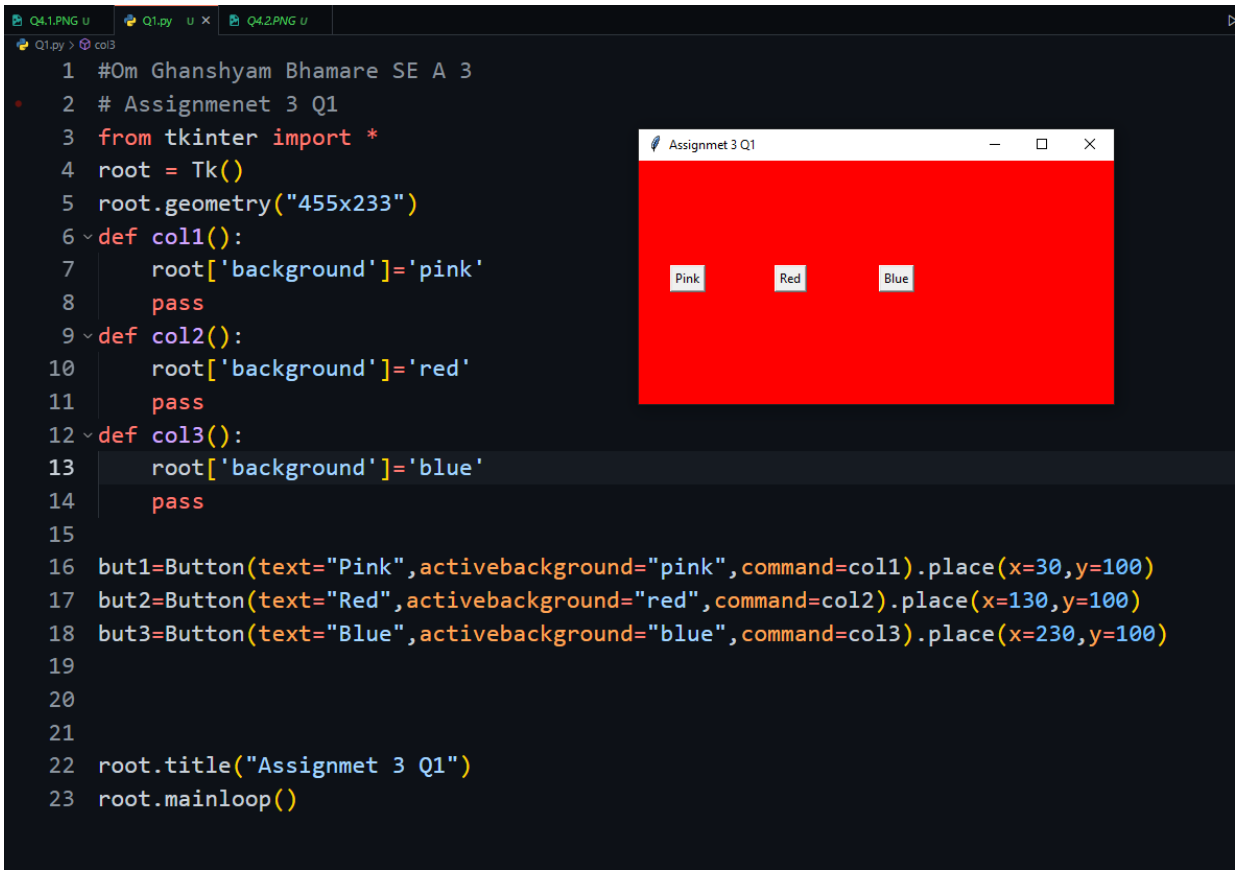
```

3]Screen After click on red button

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root.title("Assignmet 3 Q1")
root.mainloop()
```
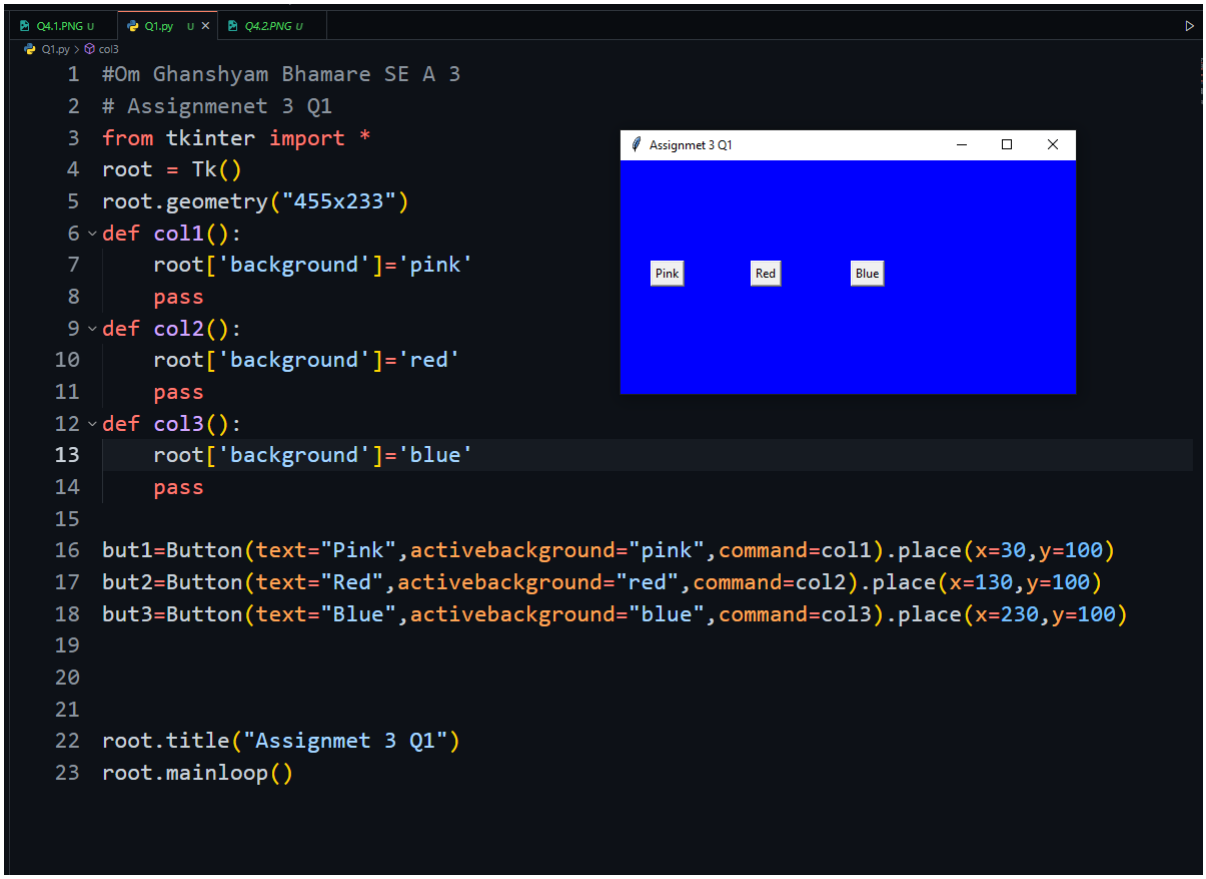

4]Screen After click on Blue button

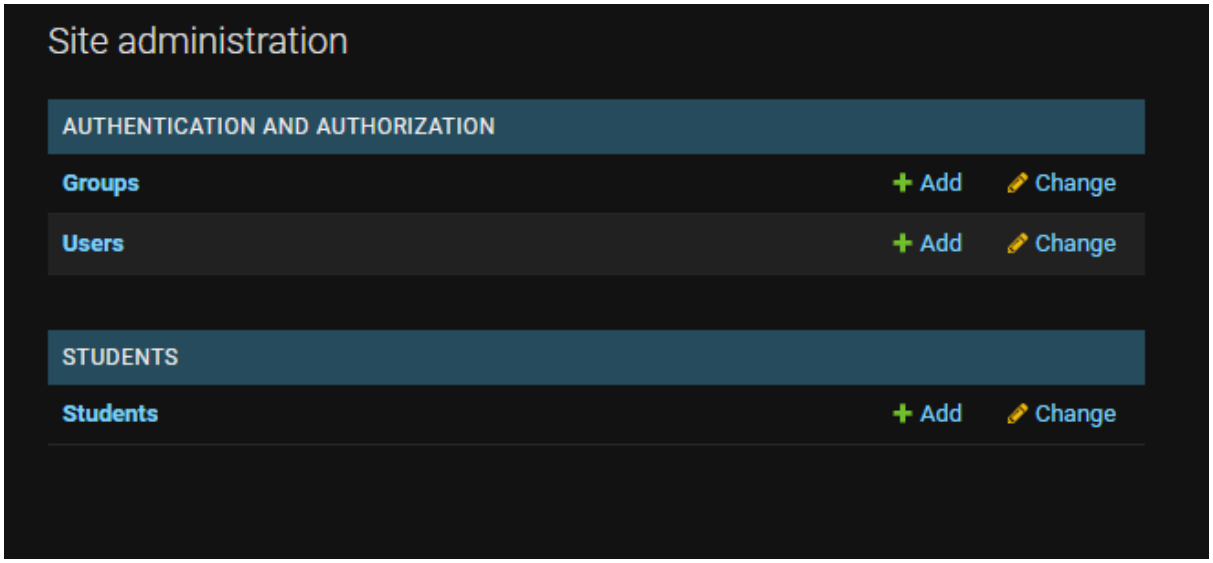


Q2. Create a Django Framework to display the following details of a Student in a web page. (The details

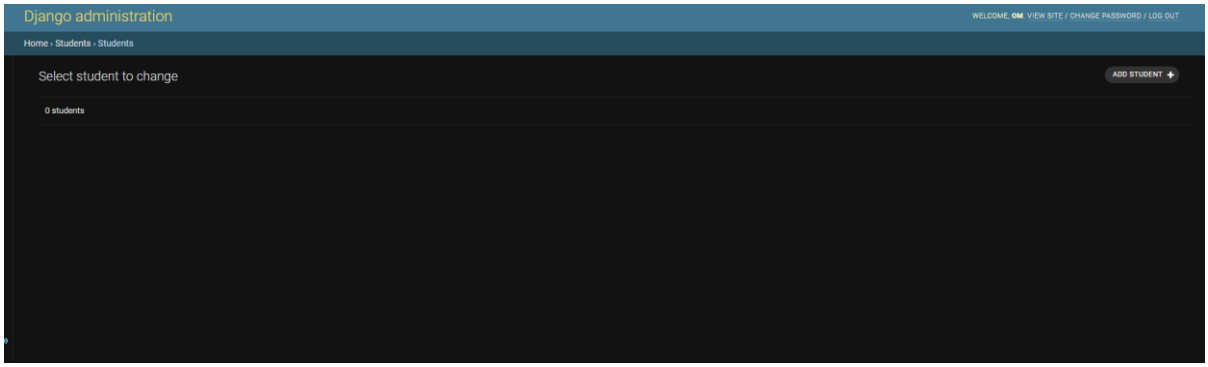
must be extracted from the database)

- **Name**
- **Age**
- **Department**
- **Current Sem**
- **Address**
- **Total CGPI**

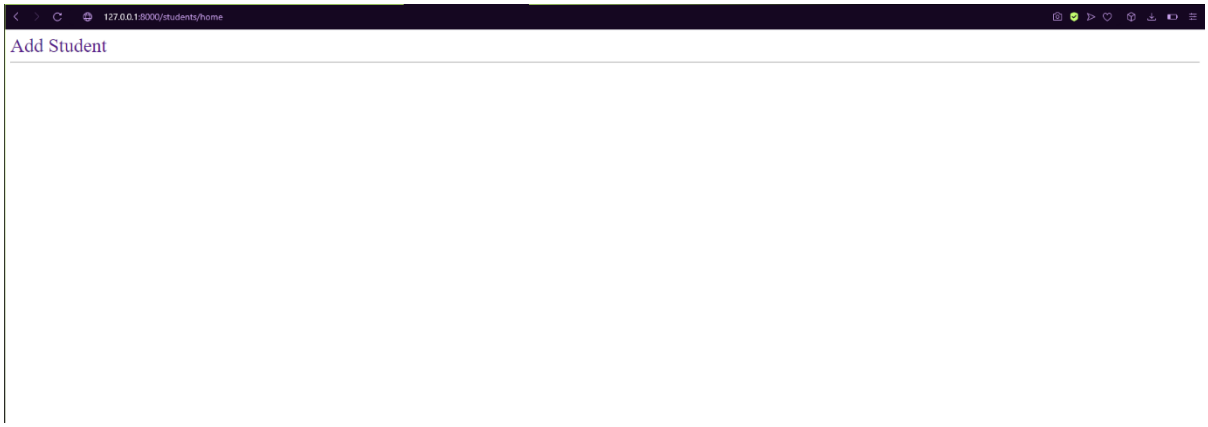
1]Students model created



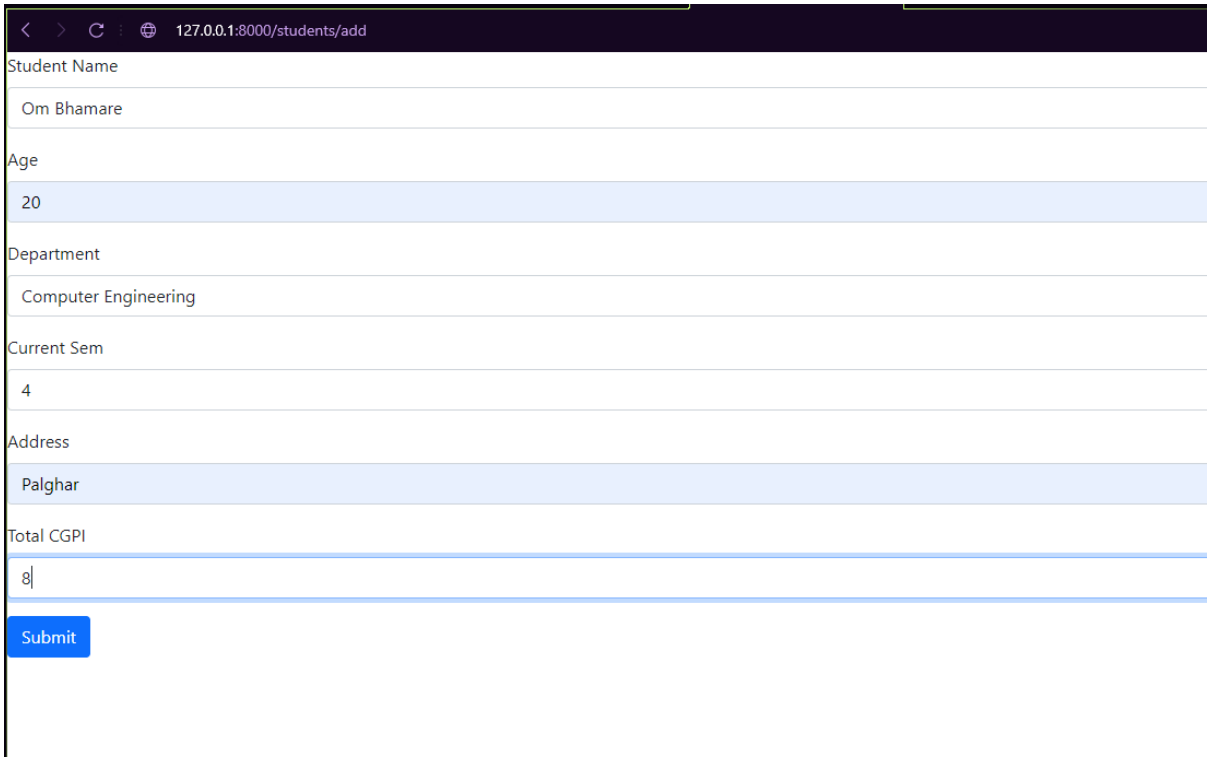
2]Initially no data in Model



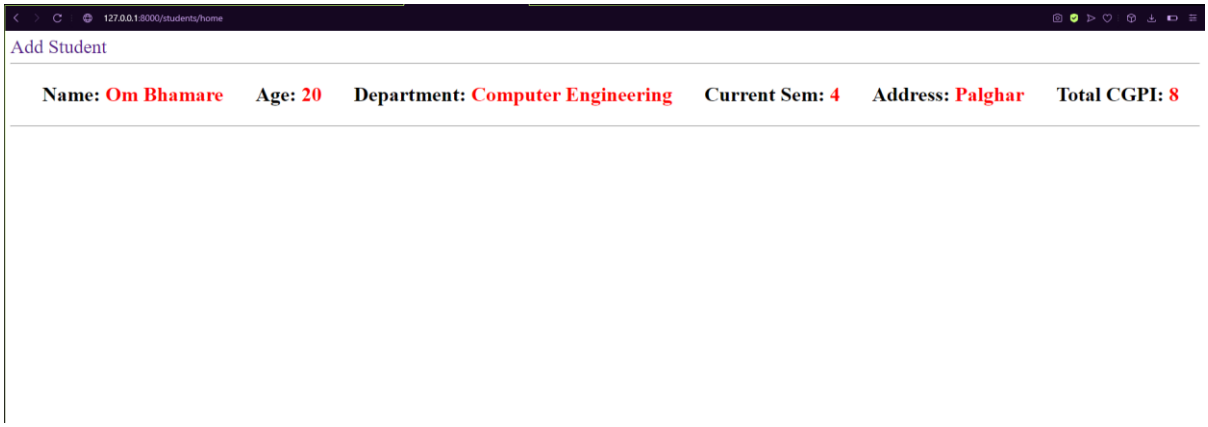
3]No data display on webpage



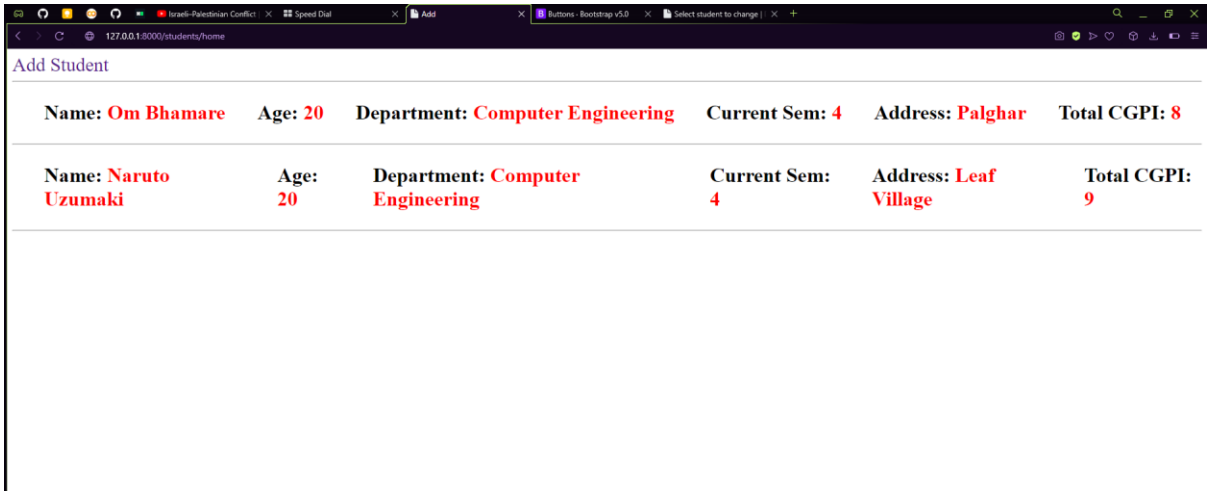
4]Student information adding form



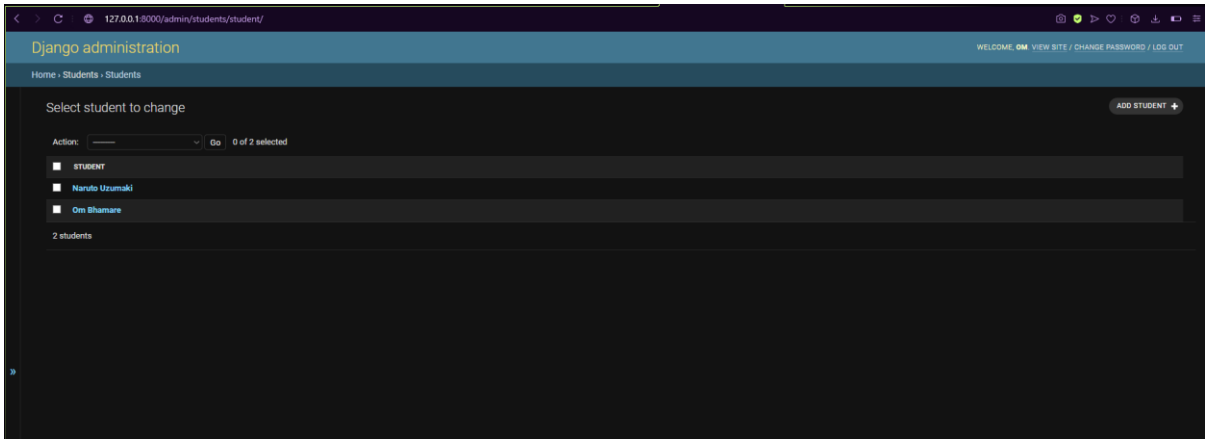
5]Information display on webpage after adding information



6]Added more data and display it



7]Added data in Student model



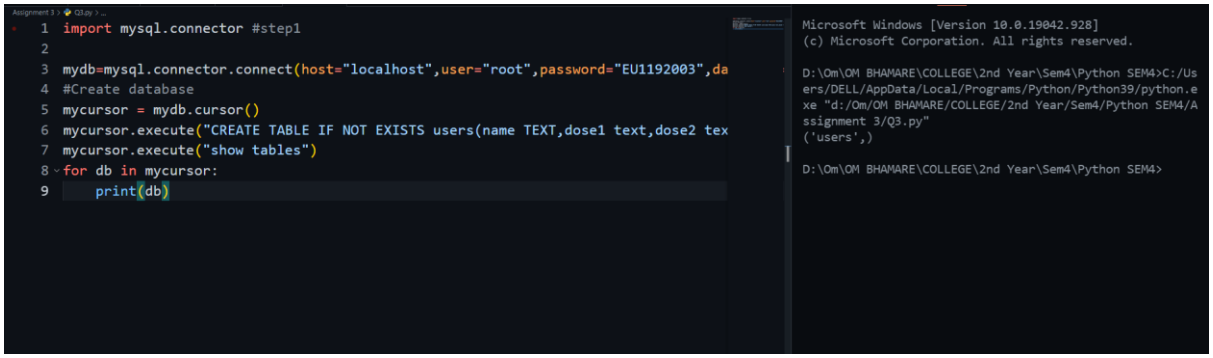
Q3. Demonstrate the working of CRUD in Python database for a vaccine data

1]Covid Database Created

```
import mysql.connector #step1

mydb=mysql.connector.connect(host="localhost",user="root",password="EU1192003")
#Create database
mycursor = mydb.cursor()
mycursor.execute("CREATE database IF NOT EXISTS covid")
mycursor.execute("show databases")
for db in mycursor:
    print(db)
```

```
Microsoft Windows [Version 10.0.19042.928]
(c) Microsoft Corporation. All rights reserved.

D:\Om\OM BHAMARE\COLLEGE\2nd Year\Sem4\Python SEM4>C:/Users/DELL/AppData/Local/Programs/Python/Python39/python.exe "d:/Om/OM BHAMARE/COLLEGE/2nd Year/Sem4/Python SEM4/Assignment 3/Q3.py"
('animelist',)
('blog_login',)
('classicmodels',)
('company',)
('company1',)
('covid',)
('information_schema',)
('leafshinobi',)
('list_app',)
('myanimelist',)
('mysql',)
('performance_schema',)
('sakila',)
('shop_app',)
('sys',)
('teachers',)
('world',)

D:\Om\OM BHAMARE\COLLEGE\2nd Year\Sem4\Python SEM4>
```

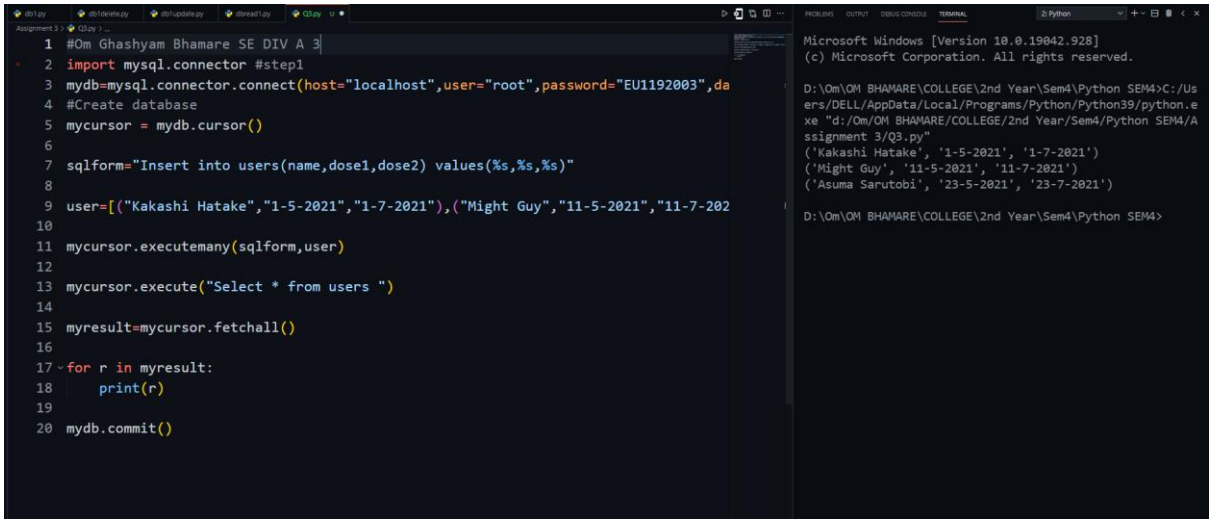
2]Created Table



```
import mysql.connector #step1

mydb=mysql.connector.connect(host="localhost",user="root",password="EU1192003",da
#Create database
mycursor = mydb.cursor()
mycursor.execute("CREATE TABLE IF NOT EXISTS users(name TEXT,dose1 text,dose2 tex
mycursor.execute("show tables")
for db in mycursor:
    print(db)
```

```
Microsoft Windows [Version 10.0.19042.928]
(c) Microsoft Corporation. All rights reserved.

D:\Om\OM BHAMARE\COLLEGE\2nd Year\Sem4\Python SEM4>C:/Users/DELL/AppData/Local/Programs/Python/Python39/python.exe "d:/Om/OM BHAMARE/COLLEGE/2nd Year/Sem4/Python SEM4/Assignment 3/Q3.py"
('users',)

D:\Om\OM BHAMARE\COLLEGE\2nd Year\Sem4\Python SEM4>
```

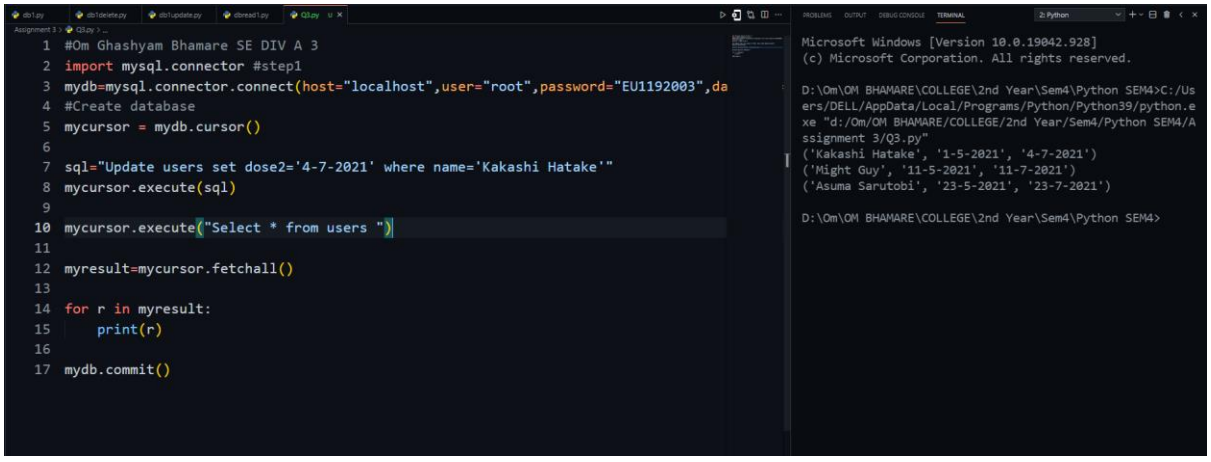
3]Added data in Tabel



```
#Om Ghashyam Bhamare SE DIV A 3
import mysql.connector #step1
mydb=mysql.connector.connect(host="localhost",user="root",password="EU1192003",da
#Create database
mycursor = mydb.cursor()

sqlform="Insert into users(name,dose1,dose2) values(%s,%s,%s)"

user=[("Kakashi Hatake","1-5-2021","1-7-2021"),("Might Guy","11-5-2021","11-7-202

mycursor.executemany(sqlform,user)

mycursor.execute("Select * from users ")

myresult=mycursor.fetchall()

for r in myresult:
    print(r)

mydb.commit()
```

```
Microsoft Windows [Version 10.0.19042.928]
(c) Microsoft Corporation. All rights reserved.

D:\Om\OM BHAMARE\COLLEGE\2nd Year\Sem4\Python SEM4>C:/Users/DELL/AppData/Local/Programs/Python/Python39/python.exe "d:/Om/OM BHAMARE/COLLEGE/2nd Year/Sem4/Python SEM4/Assignment 3/Q3.py"
('Kakashi Hatake', '1-5-2021', '1-7-2021')
('Might Guy', '11-5-2021', '11-7-2021')
('Asuma Sarutobi', '23-5-2021', '23-7-2021')

D:\Om\OM BHAMARE\COLLEGE\2nd Year\Sem4\Python SEM4>
```

3]Updated data in table



```
#Om Ghashyam Bhamare SE DIV A 3
import mysql.connector #step1
mydb=mysql.connector.connect(host="localhost",user="root",password="EU1192003",da
#Create database
mycursor = mydb.cursor()

sql="Update users set dose2='4-7-2021' where name='Kakashi Hatake'"
mycursor.execute(sql)

mycursor.execute("Select * from users ")

myresult=mycursor.fetchall()

for r in myresult:
    print(r)

mydb.commit()
```

```
Microsoft Windows [Version 10.0.19042.928]
(c) Microsoft Corporation. All rights reserved.

D:\Om\OM BHAMARE\COLLEGE\2nd Year\Sem4\Python SEM4>C:/Users/DELL/AppData/Local/Programs/Python/Python39/python.exe "d:/Om/OM BHAMARE/COLLEGE/2nd Year/Sem4/Python SEM4/Assignment 3/Q3.py"
('Kakashi Hatake', '1-5-2021', '4-7-2021')
('Might Guy', '11-5-2021', '11-7-2021')
('Asuma Sarutobi', '23-5-2021', '23-7-2021')

D:\Om\OM BHAMARE\COLLEGE\2nd Year\Sem4\Python SEM4>
```

4]Delete data in table

```python
#Om Ghashyam Bhamare SE DIV A 3
import mysql.connector #step1
mydb=mysql.connector.connect(host="localhost",user="root",password="EU1192003",da
#Create database
mycursor = mydb.cursor()

sql="DELETE FROM users WHERE name='Might Guy'"
mycursor.execute(sql)

mycursor.execute("Select * from users ")

myresult=mycursor.fetchall()

for r in myresult:
    print(r)

mydb.commit()
```

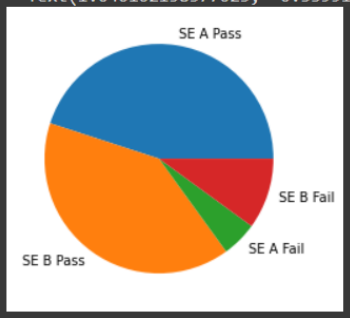
```
Microsoft Windows [Version 10.0.19042.928]
(c) Microsoft Corporation. All rights reserved.

D:\Om\OM BHAMARE\COLLEGE\2nd Year\Sem4\Python SEM4>C:/Users/DELL/AppData/Local/Programs/Python/Python39/python.exe "d:/Om/OM BHAMARE/COLLEGE/2nd Year/Sem4/Python SEM4/Assignment 3/Q3.py"
('Kakashi Hatake', '1-5-2021', '4-7-2021')
('Asuma Sarutobi', '23-5-2021', '23-7-2021')

D:\Om\OM BHAMARE\COLLEGE\2nd Year\Sem4\Python SEM4>
```

Q4. A python program to show progress of a SE COMP A and B using pie chart and line graph

1]Piechart

```
[15] #Om Ghansyam Bhamare Div A Roll No: 3
     #Assignment Q4: A python program to show progress of a SE COMP A and B using pie chart and line graph
     cls=['SE A Pass','SE B Pass','SE A Fail','SE B Fail']
     student =[45,40,5,10]
     plt.pie(student,labels=cls)
```

```
([<matplotlib.patches.Wedge at 0x7f05e895a850>,
  <matplotlib.patches.Wedge at 0x7f05e899f990>,
  <matplotlib.patches.Wedge at 0x7f05e8967290>,
  <matplotlib.patches.Wedge at 0x7f05e8967350>],
 [Text(0.17207795223283864, 1.086457168210212, 'SE A Pass'),
  Text(-0.6465638275138403, -0.889918657491039, 'SE B Pass'),
  Text(0.7778174319960043, -0.7778174866143995, 'SE A Fail'),
  Text(1.046162158377023, -0.3399187231970735, 'SE B Fail')])
```



2]Line Graph

```
#Om Ghansyam Bhamare Div A Roll No: 3
#Assignment Q4: A python program to show progress of a SE COMP A and B using pie chart and line graph
sema=['Sem 1','Sem 2','Sem 3','Sem 4']
passa=[49,43,41,45]
# plt.plot(sema,passa)
passb=[43,46,44,40]
plt.plot(sema,passa,label='Sem A')
plt.plot(sema,passb,label='Sem B')
plt.legend(loc = 'best')

--INSERT--
```

```
<matplotlib.legend.Legend at 0x7f05e86e15d0>
```