

## Python Project

Aim: To Create a Mini Project using Python GUI...

#Program

```
from tkinter import *
from tkinter import messagebox
import sqlite3
```

```
root = Tk()
root.title("Home")
root.config(bg="light blue")
root.geometry("350x500")
```

```
#Creating a connection to database
con = sqlite3.connect("info.db")
#Creating a cursor object
c = con.cursor()
```

```
#creating Table Once Only
"""c.execute("""CREATE TABLE Student(
    roll INTEGER,
    name TEXT,
    cg INTEGER,
    sgpa TEXT,
    grade CHAR,
    remark TEXT
)""")"""
```

```
roll =
[1701,1702,1703,1704,1705,1706,1707,1709,1710,1711,1712,1713,1714,1715,1716,1717,1718
,1719,1720,

1721,1722,1723,1724,1725,1726,1727,1728,1729,1730,1731,1732,1733,1734,1735,1736,1737,
1738,1739,1740,

1741,1742,1743,1744,1745,1746,1747,1748,1749,1750,1751,1752,1753,1754,1755,1756,1757,
1758,1759,1760,

1761,1762,1763,1765,1766,1767,1768,1769,1770,1771,1772,1773,1774,1775,1776,1777,1778,
1779,1780,
    1781,1782,1783,1784,1785,1786,1787,1788,1789,1790]
```

name = ['DHARAN SHAH','VARUN NADAR','NILESH HADALGEKAR','YASHASHVI PANDA','AYUSHMAN KARMOKAR','YASHSHVI SHAH','ASHITOSH SINGH','SANJANA ALWE','VEDANT SHARMA','ABHISHEK SHARMA','TANVI MANE','MAYURESH RANE','GAURAV PANDEY','RAJ KONKAR','SANJANA DUBEY','SOUMIT PATADE','RIZWANA SHAIKH','TATHEER FATIMA SAYED','SHIVAM PANDEY',  
 'OMPAL BHATI','SAURABH JAISWAR','ARYAN MISHRA','DEEPAK MAURYA','LAXMAN CHOUDHARY','JEET RANA','ABHANG MANE','ROHIT GUPTA','VIKRAM PANDIT','DINESH LOHAR','ADARSH THAKUR','GAURAV SINGH','MOHINI DESHPANDE','SACHIT PANDEY','RASHEED SHAIKH','ROHIT VISHWAKARMA','NEHAL TAWDE','SURAJ ANAKAL','ADARSH KUMAR PANDEY','RENUKA PANDEY',  
 'NEERAJ BHATADE','RAJ WAGHELA','PRANAY BOVINI','SACHIN KANOJIYA','UDIT PRATAP SINGH','DHRUV DHARAWAT','CHANDRESH GUPTA','ADITYA PAL','UTKARSH WAGHELA','ABHAY SINGH','MAYUR PANCHAL','ABHISHEK KUMAR JHA','ANUSHKA MISHRA','ANAMIKA YADAV','ADARSH YADAV','MANISH GUPTA','PRIYANKA SAW','HIMANSHU CHAUHAN','AAYUSHI CHAUHAN','CHINMAY BANDEKAR',  
 'JAI DOSHI','PINANK RATHOD','KUSHAL SINGH','DHAVAL PRAKASHKAR','MAHESH RASAM','SUSHANT POOJARY','KHUSHI SINGH','ADITYA PATHAK','SAKSHI KAMTHE','ABHISHEK SINGH','ABHINAV SINGH','RITIK VISHWAKARMA','PUSHPRAJ SINGH','BHAVYA BAHETI','SHUBHANG SINGH','KHUSHBOO YADAV','PREET JAIN','FAIZAN SALMANI','SHREYASH PATIL',  
 'AMAN SHRIVASTAV','ARYAN DENNIS','KAMALDEEP SAHNI','SAGAR PRAJAPATI','HARIKRISHNAN KONGIPARAMBIL','SHUBHAM UNIYAL','GAURAV MISHRA','CHINMAY NAIK','RACHIT JAISWAR','SAURAV SINGH']

cg = [146,126,100,156,182,170,158,180,174,192,196,168,134,142,198,118,194,196,114, 192,138,132,156,158,168,170,128,146,178,188,154,144,148,158,178,52,112,170,146, 174,184,130,154,114,186,136,168,134,38,90,104,132,98,166,144,142,154,170,172, 190,158,138,80,174,182,172,172,112,86,186,172,130,176,170,176,168,152,136, 102,114,62,158,178,166,142,162,160,154]

sgpa = ['7.30','NA','NA','7.80','9.10','8.50','7.90','9.00','8.70','9.60','9.80','8.40','NA','NA','9.90','NA','9.70','9.80','NA',

'9.60','6.90','6.60','7.80','7.90','8.40','8.50','NA','NA','8.90','9.40','7.70','7.20','7.40','7.90','8.90','NA',  
 ',NA','8.50','7.30',

'8.70','9.20','NA','7.70','NA','9.30','6.80','8.40','6.70','NA','NA','NA','6.60','NA','8.30','NA','7.10','7.70',  
 ',8.50','8.60',

'9.50','7.90','6.90','NA','8.70','9.10','8.60','8.60','NA','NA','9.30','8.60','NA','8.80','8.50','8.80','8.40',  
 '7.60','6.80',

```
'NA','NA','NA','7.90','8.90','8.30','NA','8.10','8.00','7.70']
```

```
grade = ['B+','F','F','B+','A+','A','B+','A+','A','A+','A+','A','F','F','A+','F','A+','A+','F',  
         'A+','B','B','B+','B+','A','A','F','F','A','A+','B+','B+','B+','B+','A','F','F','A','B+','  
         'A','A+','F','B+','F','A+','B','A','B','F','F','F','B','F','A','F','B+','B+','A','A',  
         'A+','B+','B','F','A','A+','A','A','F','F','A+','A','F','A','A','A','A','B+','B',  
         'F','F','F','B+','A','A','F','A','A','B+']
```

```
remark = ['PASS','FAIL WITH ATKT-1','FAIL WITH  
ATKT-2','PASS','PASS','PASS','PASS','PASS','PASS','PASS','PASS','FAIL WITH  
ATKT-1','FAIL WITH ATKT-1','A+','FAIL WITH ATKT-2','PASS','PASS','FAIL WITH ATKT-2',  
         'PASS','PASS','PASS','PASS','PASS','PASS','PASS','PASS','FAIL WITH ATKT-1','FAIL WITH  
ATKT-1','PASS','PASS','PASS','PASS','PASS','PASS','PASS','PASS','FAIL','FAIL WITH  
ATKT-2','PASS','PASS',  
         'PASS','PASS','FAIL WITH ATKT-1','PASS','FAIL WITH  
ATKT-2','PASS','PASS','PASS','PASS','PASS','FAIL','FAIL WITH ATKT-1','FAIL WITH  
ATKT-2','PASS','FAIL WITH ATKT-2','PASS','FAIL WITH ATKT-1','PASS','PASS','PASS','PASS',  
         'PASS','PASS','PASS','FAIL WITH ATKT-3','PASS','PASS','PASS','PASS','FAIL WITH  
ATKT-2','FAIL WITH  
ATKT-3','PASS','PASS','PASS','PASS','PASS','PASS','PASS','PASS','PASS','PASS',  
         'FAIL WITH ATKT-2','FAIL WITH  
ATKT-1','FAIL','PASS','PASS','PASS','PASS','PASS','PASS','PASS','PASS']
```

#Inserting the Values in Table Once Only

```
"""for i in range(len(name)):
```

```
    c.execute("INSERT INTO Student VALUES(:roll,:name,:cg,:sgpa,:grade,:remark)",
```

```
        {  
            'roll':roll[i],  
            'name':name[i],  
            'cg':cg[i],  
            'sgpa':sgpa[i],  
            'grade':grade[i],  
            'remark':remark[i],
```

```
        })
```

```
"""
```

```
def result():
```

```
    #Creating a connection to database
```

```
    con = sqlite3.connect("info.db")
```

```
    #Creating a cursor object
```

```

c = con.cursor()
c.execute("SELECT * FROM Student WHERE roll = "+search.get())
record = c.fetchall()

print(record)
#Checking there is value in Entry Widget and if yes then checking isdigit or not
#if both condition satisfies then only create a window else show messagebox
if search.get() != "" and search.get().isdigit() == True:
    try:
        #raise IndexError
        r = Tk()
        r.title("Info")
        r.config(bg="light blue")
        root.geometry("400x500")

        Label(r,text="Information of Roll No. :
"+search.get(),font=20,fg="green").grid(padx=15,pady=15,row=0,column=0,columnspan=2)

        Label(r,text="Name : ",bg="light blue").grid(padx=5,pady=5,row=1,column=0)
        Label(r,text=record[0][1],bg="light blue",fg="dark
blue").grid(padx=5,pady=5,row=1,column=1)

        Label(r,text="CG(Credit X Grade) : ",bg="light
blue").grid(padx=5,pady=5,row=2,column=0)
        Label(r,text=record[0][2],bg="light blue",fg="dark
blue").grid(padx=5,pady=5,row=2,column=1)

        Label(r,text="SGPA(Pointer) : ",bg="light blue").grid(padx=5,pady=5,row=3,column=0)
        Label(r,text=record[0][3],bg="light blue",fg="dark
blue").grid(padx=5,pady=5,row=3,column=1)

        Label(r,text="Grade : ",bg="light blue").grid(padx=5,pady=5,row=4,column=0)
        Label(r,text=record[0][4],bg="light blue",fg="dark
blue").grid(padx=5,pady=5,row=4,column=1)

        Label(r,text="Remark : ",bg="light blue").grid(padx=5,pady=5,row=5,column=0)
        Label(r,text=record[0][5],bg="light blue",fg="dark
blue").grid(padx=5,pady=5,row=5,column=1)

        Label(r,text="#Note : This result is of Semester I Exam
Only",font="5",fg="red").grid(padx=15,pady=15,row=6,column=0,columnspan=2)

```

```
Button(r,text="Exit",width=10,command=lambda:r.withdraw()).grid(padx=10,pady=10,row=7,column=0,columnspan=2)
```

```
except:
```

```
    messagebox.showerror("Error","This Roll No. Is Not A Part Of FYCS A...")
```

```
else:
```

```
    messagebox.showerror("Error","Please Enter Roll No. In Digit Only...")
```

```
#Commiting
```

```
con.commit()
```

```
#Closing the cursor object created so
```

```
c.close()
```

```
frame = Frame(root).pack(padx=10,pady=10)
```

```
Label(frame,text="Information of Students of FYCS  
A",font=20,fg="green").pack(padx=15,pady=15)
```

```
img = PhotoImage(file="book.gif")
```

```
img = img.subsample(4,6)
```

```
Label(root,image=img).pack(ipadx=10,padx=15,pady=15)
```

```
Label(frame,text="Enter Roll No. To Get Their Info.....").pack(padx=10,pady=10)
```

```
search = Entry(frame,width=30)
```

```
search.pack(padx=10,pady=10)
```

```
Button(frame,text="Search",width=10,command=result).pack()
```

```
#Commiting
```

```
con.commit()
```

```
#Closing the cursor object created so
```

```
c.close()
```

```
mainloop()
```

```
#Output
```



Info



## Information of Roll No. : 1777

Name :	KHUSHBOO YADAV
CG(Credit X Grade) :	176
SGPA(Pointer) :	8.80
Grade :	A
Remark :	PASS

**#Note : This result is of Semester I Exam Only**

Exit



Home



## Information of Students of FYCS A



Enter Roll No. To Get Their Info.....

Search