

[Python GUI – tkinter](#), [Python MySQL – Select Query](#)

Tkinter is one of the Python libraries which contains many functions for the development of graphic user interface pages and windows. Login pages are important for the development of any kind of mobile or web application. This page is most essential for user authentication purposes.

We will use *mysql.connector* library to establish a connection between Python project and MySQL workbench. Db is the object created using *mysql.connector.connect* class which stores all the information about databases such database Email Id, password, and table name.

In the below example,

- *tk.label* and *tk.button* is used to create labels and buttons on the GUI screen. Every button contains a command in it which includes a function to be executed on click of the button.
- The function *login* is created to login into the MySQL Database. The save query includes the query to be executed on the click of the login button.
- The table is created in MySQL database and software is name XAMPP control panel in use.
- The *INSERT* table is MySQL database and show output login successfully.
- *Root.mainloop()* is included at the last indicating that only components within it are included in the window.

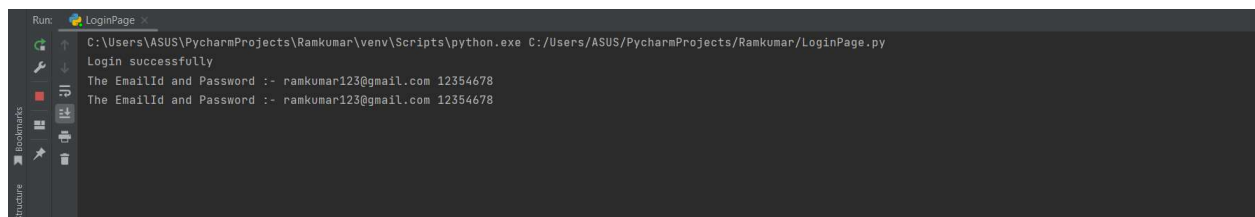
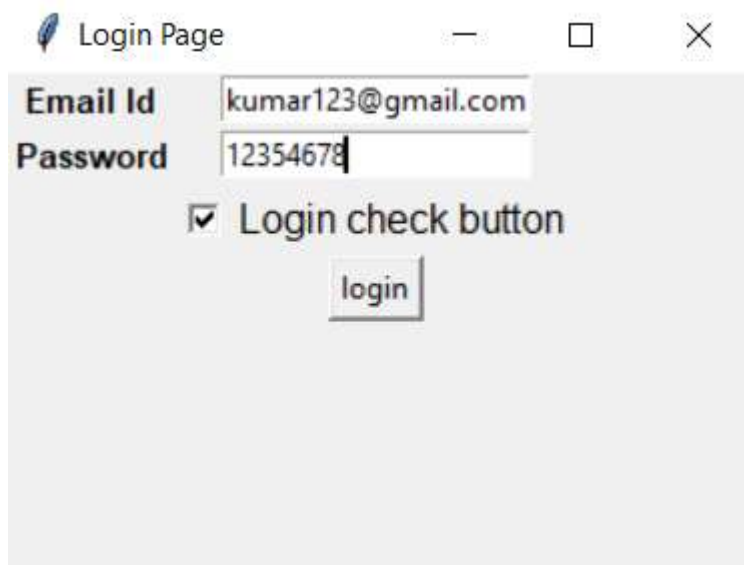
Below is the implementation:-

```
from tkinter import *
import mysql.connector
def login():
    Db =
mysql.connector.connect(host="localhost",user="ram1",password="ram1",database
="db1")
    mycursor = Db.cursor()
    EmailId = emailid_value.get()
    password = password_value.get()
    print(f"The EmailId and Password :- {EmailId} {password}")
    s = "INSERT INTO login(EmailId,Password)VALUES (%s,%s) "
    re = (EmailId,password)
    mycursor.execute(s, re)
    Db.commit()

root = Tk()
root.geometry('300x200')
root.title('Login Page')
# Label
emailid = Label(root,text='Email Id',font='Arial 10 bold')
password = Label(root,text='Password',font='Arial 10 bold')
# pack Label our from
emailid.grid(row=1,column=0)
password.grid(row=2,column=0)
# Tkinter variable for storing entries
emailid_value = StringVar()
password_value = StringVar()
checkboxbutton_value = IntVar()
# Entries for our from
emailid_entry = Entry(root,textvariable=emailid_value)
password_entry = Entry(root,textvariable=password_value)
# pack for our from
emailid_entry.grid(row=1,column=1)
password_entry.grid(row=2,column=1)
```

```
# CheckBox
checkbutton = Checkbutton(root,text="Login check button",font='bold')
checkbutton.grid(row=3,column=1)
# Button
button = Button(root,text='login',command=login)
# pack Button for our from
button.grid(row=4,column=1)
print("Login successfully")
root.mainloop()
```

Output:-



New

college

db1

New

login

login1

registration_from

information_schema

mysql

performance_schema

phpmyadmin

ram

ram1

ram2

ram kumar

test

tye

type

ut

Showing rows 0 - 12 (13 total, Query took 0.0011 seconds.)

SELECT * FROM `login`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all

Number of rows: 25

Filter rows: Search this table

+ Options

EmailId	Password
ramkuimay	23467878
ramkumar@gmail.com	8798970809890
ramkumar2gmail.com	7887989
ramkumtkjl	797800780
ramkumar2gmail.com	3426767
ramkumar2gmail.com	4235676
ramkumar2gmail.com	4235676
ramkumar2gmail.com	788970
ramkumar123@gmail.com	12354678
ramkumar123@gmail.com	12354678