

TEAM ID	PNT2022TMID39027
PROJECT NAME	SMART SOLLUTIONS FOR RAILWAYS

LOGIN:

-*- coding: utf-8 -*-

""""LOGIN.ipynb

Automatically generated by Colaboratory.

Original file is located at

https://colab.research.google.com/drive/1uRyKBrwEgn_PIfb6yQvgo6WykpfzANj2

""""

from tkinter import *

import sqlite3

root = Tk()

root.title("Python: Simple Login Application")

width = 400

height = 280

screen_width = root.winfo_screenwidth()

screen_height = root.winfo_screenheight()

x = (screen_width/2) - (width/2)

```
y = (screen_height/2) - (height/2)
root.geometry('%dx%d+%d+%d' % (width, height, x, y))
root.resizable(0, 0)
```

```
#=====VARIABLES=====
```

```
USERNAME = StringVar()
```

```
PASSWORD = StringVar()
```

```
#=====FRAMES=====
```

```
Top = Frame(root, bd=2, relief=RIDGE)
```

```
Top.pack(side=TOP, fill=X)
```

```
Form = Frame(root, height=200)
```

```
Form.pack(side=TOP, pady=20)
```

```
#=====LABELS=====
```

```
lbl_title = Label(Top, text = "Python: Simple Login  
Application", font=('arial', 15))
```

```
lbl_title.pack(fill=X)
```

```
lbl_username = Label(Form, text = "Username:", font=('arial',  
14), bd=15)
```

```
lbl_username.grid(row=0, sticky="e")
```

```
lbl_password = Label(Form, text = "Password:", font=('arial',  
14), bd=15)
```

```
lbl_password.grid(row=1, sticky="e")
```

```
lbl_text = Label(Form)
```

```
lbl_text.grid(row=2, columnspan=2)
```

```
#=====ENTRYWIDGETS=====
```

```
username = Entry(Form, textvariable=USERNAME, font=(14))
```

```
username.grid(row=0, column=1)
```

```
password = Entry(Form, textvariable=PASSWORD, show="*",  
font=(14))
```

```
password.grid(row=1, column=1)
```

```
=====METHODS=====
```

```
def Database():
```

```
    global conn, cursor
```

```
    conn = sqlite3.connect('pythontut.db')
```

```
    cursor = conn.cursor()
```

```
    cursor.execute("CREATE TABLE IF NOT EXISTS  
`member` (mem_id INTEGER NOT NULL PRIMARY KEY  
AUTOINCREMENT, username TEXT, password TEXT)")
```

```
    cursor.execute("SELECT * FROM `member` WHERE  
`username` = 'admin' AND `password` = 'admin'")
```

```
    if cursor.fetchone() is None:
```

```
        cursor.execute("INSERT INTO `member` (username,  
password) VALUES('admin', 'admin')")
```

```
        conn.commit()
```

```
def Login(event=None):
```

```
    Database()
```

```
    if USERNAME.get() == "" or PASSWORD.get() == "":
```

```
        lbl_text.config(text="Please complete the required field!",  
fg="red")
```

```
    else:
```

```
        cursor.execute("SELECT * FROM `member` WHERE  
`username` = ? AND `password` = ?", (USERNAME.get(),  
PASSWORD.get()))
```

```
        if cursor.fetchone() is not None:
```

```
            HomeWindow()
```

```
            USERNAME.set("")
```

```
            PASSWORD.set("")
```

```
            lbl_text.config(text="")
```

```
        else:
```

```
            lbl_text.config(text="Invalid username or password",  
fg="red")
```

```
            USERNAME.set("")
```

```
            PASSWORD.set("")
```

```
        cursor.close()
```

```
        conn.close()
```

```
#=====BUTTONWIDGET=====
```

```
btn_login = Button(Form, text="Login", width=45,  
command=Login)  
btn_login.grid(pady=25, row=3, columnspan=2)  
btn_login.bind('<Return>', Login)
```

```
def HomeWindow():
```

```
    global Home  
    root.withdraw()  
    Home = Toplevel()  
    Home.title('Python: Simple Login Application')  
    width = 600  
    height = 500  
    screen_width = root.winfo_screenwidth()  
    screen_height = root.winfo_screenheight()  
    x = (screen_width/2) - (width/2)  
    y = (screen_height/2) - (height/2)  
    root.resizable(0, 0)  
    Home.geometry("%dx%d+%d+%d" % (width, height, x, y))  
    lbl_home = Label(Home, text="Successfully Login!",  
font=('times new roman', 20)).pack()  
    btn_back = Button(Home, text='Back',  
command=Back).pack(pady=20, fill=X)
```

```
def Back():
```

Home.destroy()

root.deiconify()