

```

from tkinter import *

import sqlite3


root = Tk()

root.title("RAILWAYS LOGIN")

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, colspan=2)
```

```
#=====ENTRY WIDGETS=====
```

```
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()

```

```

#=====BUTTON WIDGETS=====

```

```

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()
```