Team ID	PNT2022TMID03711
Project Name	Smart solution for Railways.

LOGIN

```
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)
==========
USERNAME = StringVar()
PASSWORD = StringVar()
_____
Top = Frame(root, bd=2, relief=RIDGE)
Top.pack(side=TOP, fill=X)
Form = Frame(root, height=200)
Form.pack(side=TOP, pady=20)
```

```
_____
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)
#======ENTRY
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)
==========
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
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()
```