

**TKINTER:****Weather app:**

```
import tkinter as tk
from tkinter import messagebox, ttk

# --- Login Window ---
def login():
    if username.get() == "user" and password.get() == "123":
        login_window.destroy()
        open_location_window()
    else:
        messagebox.showerror("Error", "Invalid Username or Password")

login_window = tk.Tk()
login_window.title("Login - Weather App")
login_window.geometry("300x200")

def open_location_window():
    loc = tk.Tk()
    loc.title("Weather Forecast - Select Location")
    loc.geometry("300x250")

    tk.Label(loc, text="Select Location:", font=("Arial", 12)).pack(pady=10)
    city = ttk.Combobox(loc, values=["Mumbai", "Delhi", "Chennai", "Kolkata"])
    city.pack(pady=5)

def show_forecast():
    if not city.get():
        messagebox.showwarning("Select", "Please select a city")
    return
```

```

messagebox.showinfo("Forecast",
f"Weather in {city.get()}:\\n\\nSunny\\nTemp: 30°C\\nHumidity: 65%")

tk.Button(loc, text="Show Forecast", command=show_forecast).pack(pady=20)
loc.mainloop()

tk.Label(login_window, text="Username").pack()
username = tk.Entry(login_window)
username.pack()

tk.Label(login_window, text="Password").pack()
password = tk.Entry(login_window, show="*")
password.pack()

tk.Button(login_window, text="Login", command=login).pack(pady=10)
login_window.mainloop()

```

### **Hotel booking:**

```

import tkinter as tk
from tkinter import messagebox, ttk

def login():
    if user.get() == "guest" and pw.get() == "123":
        root.destroy()
        open_room_window()
    else:
        messagebox.showerror("Login Failed", "Invalid credentials")

```

```

def open_room_window():
    r = tk.Tk()
    r.title("Select Room")

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```
r.geometry("300x250")

tk.Label(r, text="Select Room Type:", font=("Arial", 12)).pack(pady=10)
room = ttk.Combobox(r, values=["Single - ₹1500", "Double - ₹2500", "Suite - ₹4000"])
room.pack(pady=10)

def book():
    if not room.get():
        messagebox.showwarning("Select", "Please select a room")
        return
    messagebox.showinfo("Booking Confirmed",
                       f"You booked {room.get()}\nProceeding to Payment")
    r.destroy()
    open_payment()

tk.Button(r, text="Book Room", command=book).pack(pady=20)
r.mainloop()

def open_payment():
    p = tk.Tk()
    p.title("Payment Screen")
    p.geometry("300x200")

    tk.Label(p, text="Payment Successful!", font=("Arial", 14), fg="green").pack(pady=40)
    tk.Button(p, text="Done", command=p.destroy).pack(pady=10)
    p.mainloop()

root = tk.Tk()
root.title("Hotel Booking - Login")
root.geometry("300x200")
```

```

tk.Label(root, text="Username").pack()
user = tk.Entry(root)
user.pack()

tk.Label(root, text="Password").pack()
pw = tk.Entry(root, show="*")
pw.pack()

tk.Button(root, text="Login", command=login).pack(pady=10)
root.mainloop()

```

**Grocery login:**

```

import tkinter as tk
from tkinter import messagebox, ttk

def login():
    if u.get() == "user" and p.get() == "123":
        root.destroy()
        open_catalog()
    else:
        messagebox.showerror("Error", "Invalid login")

```

```

def open_catalog():
    c = tk.Tk()
    c.title("Grocery Catalog")
    c.geometry("350x300")

```

```

products = {"Apples": 60, "Bananas": 40, "Tomatoes": 30, "Rice": 100}
tk.Label(c, text="Select Products:", font=("Arial", 12)).pack(pady=5)
checks = {}
for prod, price in products.items():

```

```
var = tk.IntVar()

tk.Checkbutton(c, text=f"{prod} - ₹{price}/kg", variable=var).pack(anchor="w")
checks[prod] = (price, var)

def checkout():
    total = sum(price for prod, (price, var) in checks.items() if var.get())
    if total == 0:
        messagebox.showwarning("Empty", "Please select items")
        return
    c.destroy()
    open_payment(total)

tk.Button(c, text="Proceed to Payment", command=checkout).pack(pady=20)
c.mainloop()

def open_payment(total):
    p = tk.Tk()
    p.title("Payment")
    p.geometry("300x200")

    tk.Label(p, text=f"Total Amount: ₹{total}", font=("Arial", 12)).pack(pady=10)
    tk.Label(p, text="Payment Successful!", fg="green", font=("Arial", 14)).pack(pady=20)
    tk.Button(p, text="Done", command=p.destroy).pack()
    p.mainloop()

root = tk.Tk()
root.title("Grocery Login")
root.geometry("300x200")

tk.Label(root, text="Username").pack()
u = tk.Entry(root)
```

```
u.pack()

tk.Label(root, text="Password").pack()
p = tk.Entry(root, show="*")
p.pack()

tk.Button(root, text="Login", command=login).pack(pady=10)
root.mainloop()
```

### **Bank login:**

```
import tkinter as tk
from tkinter import messagebox

balance = 5000
transactions = []

def login():
    if user.get() == "bank" and pw.get() == "123":
        login_win.destroy()
        open_main()
    else:
        messagebox.showerror("Login Failed", "Invalid Credentials")

def open_main():
    main = tk.Tk()
    main.title("Banking Dashboard")
    main.geometry("300x300")

def check_balance():
    messagebox.showinfo("Balance", f"Your balance: ₹{balance}")
```

```
def transfer_money():

    def send():

        global balance

        amt = int(amount.get())

        if amt > balance:

            messagebox.showerror("Error", "Insufficient Balance")

        else:

            balance -= amt

            transactions.append(f"Transferred ₹{amt}")

            messagebox.showinfo("Success", f"₹{amt} transferred successfully")

            t.destroy()

t = tk.Toplevel(main)

t.title("Transfer Money")

tk.Label(t, text="Enter amount:").pack(pady=5)

amount = tk.Entry(t)

amount.pack()

tk.Button(t, text="Send", command=send).pack(pady=10)

def show_history():

    if not transactions:

        messagebox.showinfo("History", "No transactions yet")

    else:

        hist = "\n".join(transactions)

        messagebox.showinfo("Transaction History", hist)

tk.Button(main, text="Check Balance", command=check_balance).pack(pady=10)

tk.Button(main, text="Transfer Money", command=transfer_money).pack(pady=10)

tk.Button(main, text="Transaction History", command=show_history).pack(pady=10)

tk.Button(main, text="Exit", command=main.destroy).pack(pady=10)
```

```
main.mainloop()

login_win = tk.Tk()
login_win.title("Bank Login")
login_win.geometry("300x200")

tk.Label(login_win, text="Username").pack()
user = tk.Entry(login_win)
user.pack()

tk.Label(login_win, text="Password").pack()
pw = tk.Entry(login_win, show="*")
pw.pack()

tk.Button(login_win, text="Login", command=login).pack(pady=10)
login_win.mainloop()
```