import http.client

import json

def get\_weather(api\_key, location):

conn = http.client.HTTPConnection("api.openweathermap.org")

conn.request("GET", f"/data/2.5/weather?q={location}&appid={api\_key}&units=metric")

response = conn.getresponse()

if response.status == 200:

data = json.loads(response.read().decode("utf-8"))

return {

"temperature": data["main"]["temp"],

"weather\_condition": data["weather"][0]["description"],

"humidity": data["main"]["humidity"],

"wind\_speed": data["wind"]["speed"]

}

else:

return {"error": "Failed to retrieve weather data"}

def display\_weather(weather\_data):

print("Current Weather Data:")

print(f"Temperature: {weather\_data['temperature']}°C")

print(f"Weather Condition: {weather\_data['weather\_condition']}")

print(f"Humidity: {weather\_data['humidity']}%")

print(f"Wind Speed: {weather\_data['wind\_speed']} m/s")

def main():

api\_key = input("Enter your OpenWeatherMap API key: ")

location = input("Enter the location (city name): ")

weather\_data = get\_weather(api\_key, location)

if "error" in weather\_data:

print(weather\_data["error"])

else:

display\_weather(weather\_data)

if \_\_name\_\_ == "\_\_main\_\_":

main()