**Assignment 8**

**Code:**

import requests

def get\_weather\_data(city, api\_key):

    base\_url = 'http://api.openweathermap.org/data/2.5/weather?'

    url = f"{base\_url}appid={api\_key}&q={city}&units=metric"

    response = requests.get(url)

    if response.status\_code == 200:  # Check if the request was successful

        return response.json()  # Return the JSON response

    else:

        print("Error:", response.status\_code, response.json().get('message'))

        return None

def display\_weather\_info(weather\_data):

    if weather\_data:

        city\_name = weather\_data.get('name')

        country = weather\_data.get('sys', {}).get('country')

        temperature = weather\_data.get('main', {}).get('temp')

        wind\_speed = weather\_data.get('wind', {}).get('speed')

        description = weather\_data.get('weather', [{}])[0].get('description')

        print(f"Weather in {city\_name}, {country}:")

        print(f"Temperature: {temperature}°C")

        print(f"Wind Speed: {wind\_speed} m/s")

        print(f"Description: {description}")

    else:

        print("No weather data to display.")

def main():

    api\_key = '15eea7cf278a6ef252cc7affc8320469'  # Replace with your actual API key

    city = input("Enter the city: ")  # Get city name from user

    weather\_data = get\_weather\_data(city, api\_key)  # Fetch weather data

    display\_weather\_info(weather\_data)  # Display weather info

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

    main()

**OUTPUT**

Enter the city: Pune

Weather in Pune, IN:

Temperature: 25.69°C

Wind Speed: 1.54 m/s

Description: overcast clouds