Practical No – 8

Title - Write a program to find the live weather report (temperature, wind speed, description, and weather) of a given city. (Python).

Program :

```python
import requests
def get_weather(city_name, api_key):


  base_url = "http://api.openweathermap.org/data/2.5/weather?q=Pune&appid=bb0aac11b3f7b7e1d4e23567ed0b01b4&units=metric"


    complete_url = base_url + "q=" + city_name + "&appid=" + api_key + "&units=metric"


    response = requests.get(complete_url)


    weather_data = response.json()


    print(weather_data)


    if weather_data["cod"] == 200:
        main_info = weather_data["main"]
        wind_info = weather_data["wind"]
        weather_info = weather_data["weather"][0]


        temperature = main_info["temp"]
        wind_speed = wind_info["speed"]
        description = weather_info["description"]
        weather_main = weather_info["main"]
```

```python
        print(f"City: {city_name}")

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

        print(f"Wind Speed: {wind_speed} m/s")

        print(f"Weather Description: {description}")

        print(f"Weather: {weather_main}")

    else:

        print(f"Error: {weather_data['message']}")


if __name__ == "__main__":

    api_key = "bb0aac11b3f7b7e1d4e23567ed0b01b4"

    city_name = input("Enter city name: ")

    get_weather(city_name, api_key)
```

OUTPUT :

```
PS C:\Users\Vaishnavi\Desktop\isr labs> cd ISR7
PS C:\Users\Vaishnavi\Desktop\isr labs\ISR7> python isr8.py
Enter city name: Pune
{'coord': {'lon': 73.8553, 'lat': 18.5196}, 'weather': [{'id': 800, 'main': 'Clear', 'description': 'clear sky', 'icon': '01d'}], 'base': 'stations
', 'main': {'temp': 303.47, 'feels_like': 308.98, 'temp_min': 303.47, 'temp_max': 303.47, 'pressure': 1012, 'humidity': 70, 'sea_level': 1012, 'grn
d_level': 940}, 'visibility': 10000, 'wind': {'speed': 4.9, 'deg': 137, 'gust': 6.68}, 'clouds': {'all': 7}, 'dt': 1728792517, 'sys': {'type': 2, '
id': 2091523, 'country': 'IN', 'sunrise': 1728781061, 'sunset': 1728823414}, 'timezone': 19800, 'id': 1259229, 'name': 'Pune', 'cod': 200}
City: Pune
Temperature: 303.47°C
Wind Speed: 4.9 m/s
Weather Description: clear sky
Weather: Clear
PS C:\Users\Vaishnavi\Desktop\isr labs\ISR7>
```