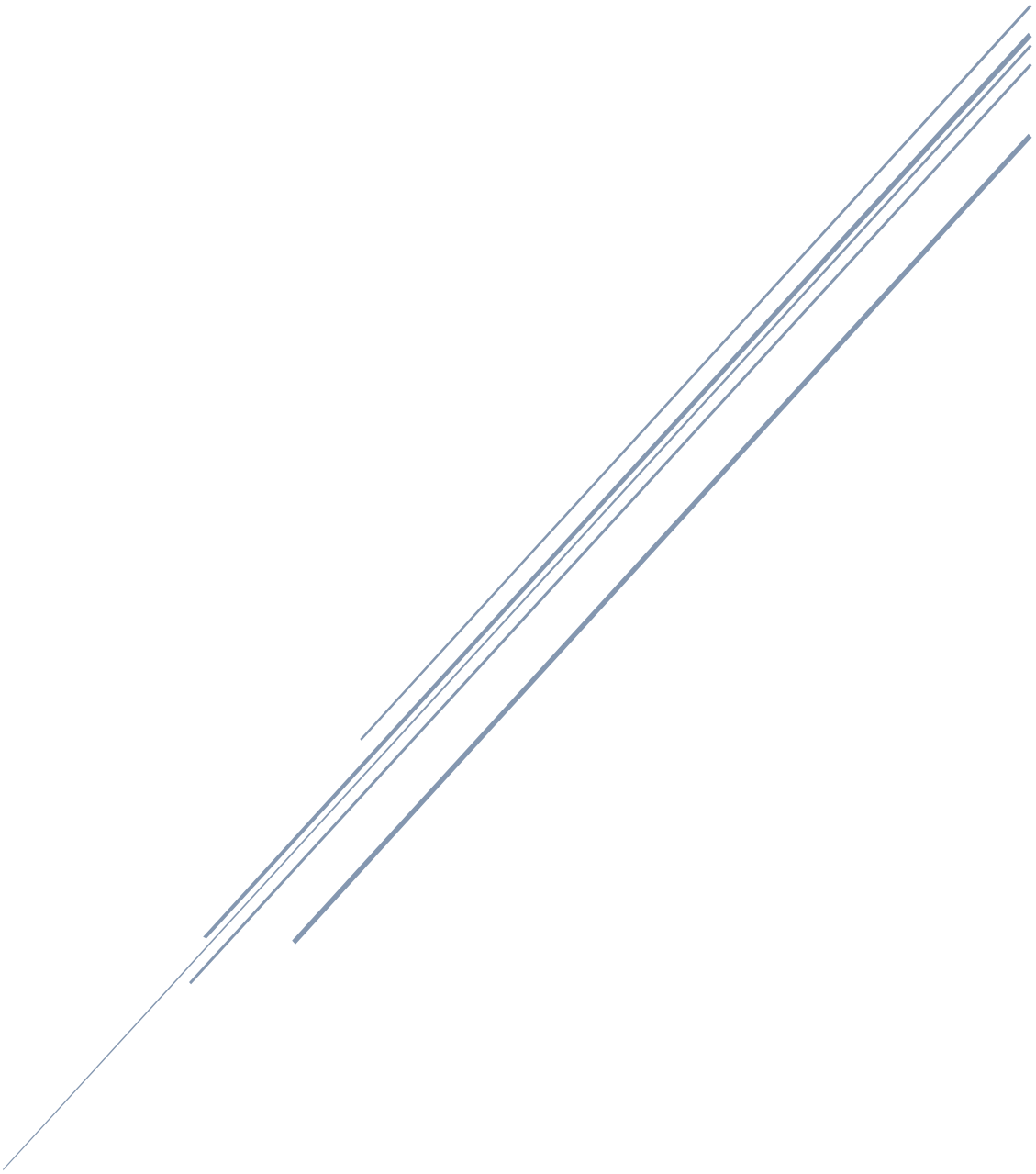
WEATHER REPORTER



Weather Reporter

About:

The OpenWeatherMap is a service that provides weather data, including current weather data, forecasts, and historical data to the developers of web services and mobile applications.

It provides an API with JSON, XML, and HTML endpoints and a limited free usage tier. Making more than 60 calls per minute requires a paid subscription starting at USD 40 per month. Access to historical data requires a subscription starting at 150 USD per month. Users can request current weather information, extended forecasts, and graphical maps (showing cloud cover, wind speed, pressure, and precipitation)

Code:

```
import requests
```

Used to import the requests.

```
api_key = "Replace your API Key"
city_name = input("Enter city name:  ")
base_url = "http://api.openweathermap.org/data/2.5/weather?"
complete_url = base_url + "appid=" + api_key + "&q=" + city_name
```

Go to the openweathermap.com and create an API Key. Then Replace with API key in the code. City name is to grt the city name.

```
response = requests.get(complete_url)
data = response.json()
```

These lines are used to get response from the complete URL.

```
humidity = data['main']['humidity']
pressure = data['main']['pressure']
wind = data['wind']['speed']
description = data['weather'][0]['description']
temp = data['main']['temp']
```

In order to get the data from the Openweathermap in a simple and detailed form, we have to spilt the data into different categorises.

```
c = temp - 273.15
```

While Openweathermap uses the kelvin for temperature, we need to convert the kelvin into Celsius.

```
print('Temperature:', c, '°C')
print('Wind:', wind)
print('Pressure: ', pressure)
print('Humidity: ', humidity)
print('Description:', description)
```

to get the weather of the city, we need to print in the output

Results:

```
Enter city name:  Delhi
Temperature: 41.05000000000001 °C
Wind: 3.6
Pressure:  997
Humidity:  26
Description: haze
```