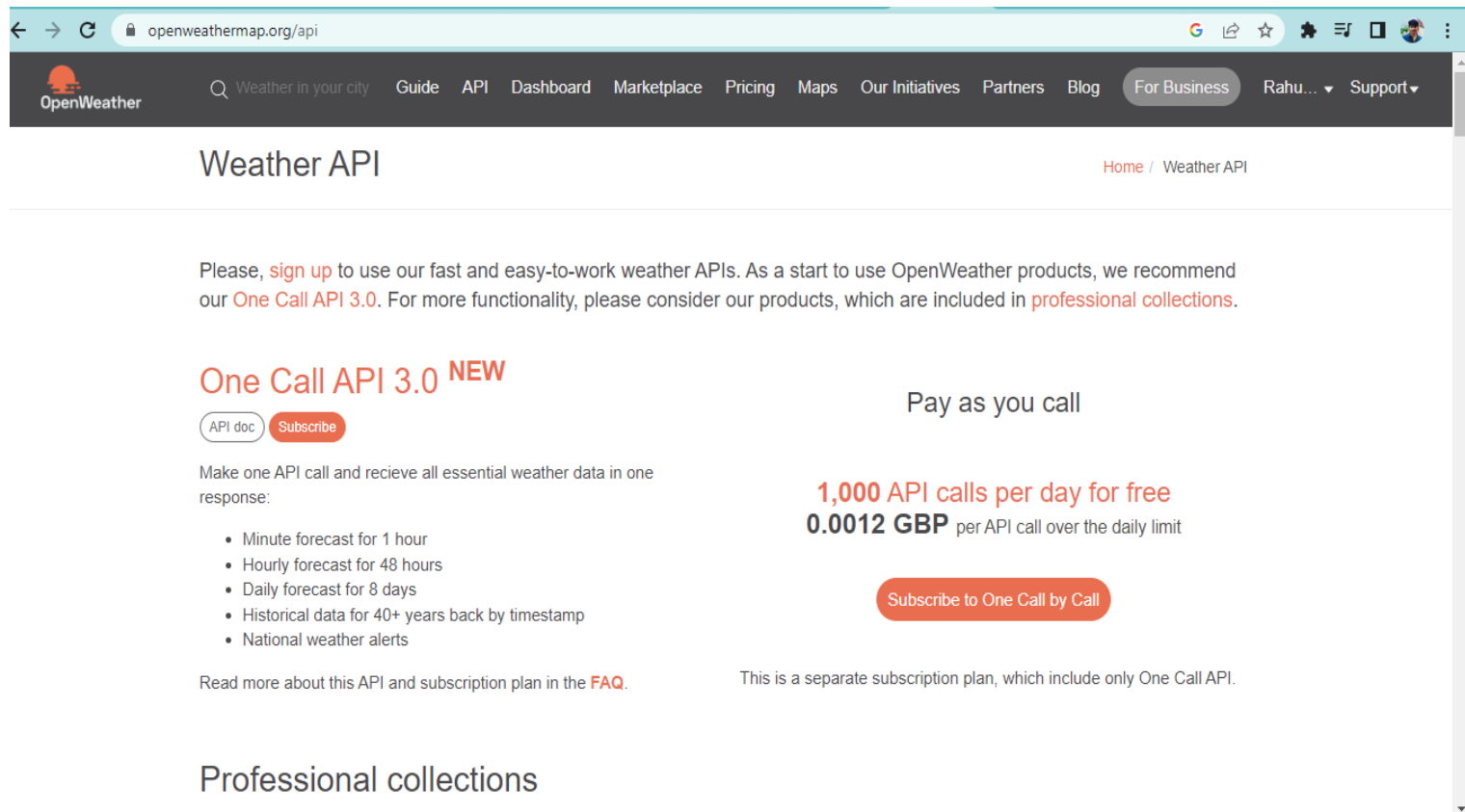


Develop a python Script

Date	10 September 2022
Team ID	PNT2022TMID17080
Project Name	Project - Signs with smart connectivity for Better road safety
Maximum Marks	4 Marks

Create a code snippet using python to

1. Extract weather data from OpenWeatherMap using APIs
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it in the python compile



The screenshot shows the OpenWeatherMap API page. The browser address bar displays 'openweathermap.org/api'. The page header includes the OpenWeather logo and a navigation menu with links like 'Weather in your city', 'Guide', 'API', 'Dashboard', 'Marketplace', 'Pricing', 'Maps', 'Our Initiatives', 'Partners', 'Blog', 'For Business', 'Rahu...', and 'Support'. The main heading is 'Weather API' with a breadcrumb trail 'Home / Weather API'. The content area explains that users should sign up to use the APIs and recommends the 'One Call API 3.0'. It lists features such as minute, hourly, and daily forecasts, historical data, and national weather alerts. Pricing is shown as 'Pay as you call' with '1,000 API calls per day for free' and '0.0012 GBP per API call over the daily limit'. A 'Subscribe to One Call by Call' button is present. At the bottom, there is a link to 'Professional collections'.

openweathermap.org/api

OpenWeather

Weather in your city Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business Rahu... Support

Weather API

Home / Weather API

Please, [sign up](#) to use our fast and easy-to-work weather APIs. As a start to use OpenWeather products, we recommend our [One Call API 3.0](#). For more functionality, please consider our products, which are included in [professional collections](#).

One Call API 3.0 ^{NEW}

[API doc](#) [Subscribe](#)

Make one API call and receive all essential weather data in one response:

- Minute forecast for 1 hour
- Hourly forecast for 48 hours
- Daily forecast for 8 days
- Historical data for 40+ years back by timestamp
- National weather alerts

Read more about this API and subscription plan in the [FAQ](#).

Pay as you call

1,000 API calls per day for free
0.0012 GBP per API call over the daily limit

[Subscribe to One Call by Call](#)

This is a separate subscription plan, which includes only One Call API.

Professional collections

Weather in your city

chennai

Search



Chennai, IN *mist*

24°C temperature from 24 to 24 °C, wind 1.03 m/s. clouds 75 %, 1013 hpa

Geo coords [13.0878, 80.2785]

Search engine is very flexible. How it works:

- To make it more precise put the city's name, comma, 2-letter country code (ISO3166). You will get all proper cities in chosen country. The order is important - the first is city name then comma then country. Example - London, GB or New York, US.

Continue

req.py - D:/suganya/S.RAHUL KUMAR/python/req.py (3.11.0)

File Edit Format Run Options Window Help

```
import requests

weather="https://api.openweathermap.org/data/2.5/weather?q=Chennai,IN&appid=d1301219cd34a078715795601e2c-47"

r=requests.get(url = weather)
data = r.json()
|
print(r)
print(data)

temp = data["main data"]["temperature"]

hum= data["main data "]["humidity"]
print(" Temperature is:",temp)
print("Humidity is:",hum)
```

Rectangular Snip

<Response [200]>

Temperature is : 298.14

>>>

===== RESTART: E:/IBM/pre/weatherMap.py =====
=====

<Response [200]>

{'coord': {'lon': 80.2785, 'lat': 13.0878}, 'weather': [{'id': 701, 'main': 'Mist', 'description': 'mist', 'icon': '50n'}, {'id': 500, 'main': 'Rain', 'description': 'light rain', 'icon': '10n'}], 'base': 'stations', 'main': {'temp': 298.14, 'feels_like': 299.15, 'temp_min': 298.14, 'temp_max': 298.14, 'pressure': 1012, 'humidity': 94}, 'visibility': 2500, 'wind': {'speed': 1.54, 'deg': 350}, 'rain': {'1h': 0.12}, 'clouds': {'all': 75}, 'dt': 1667317416, 'sys': {'type': 1, 'id': 9218, 'country': 'IN', 'sunrise': 1667262751, 'sunset': 1667304738}, 'timezone': 19800, 'id': 1264527, 'name': 'Chennai', 'cod': 200}

Temperature is : 298.14

Humidity is : 94

>>>