

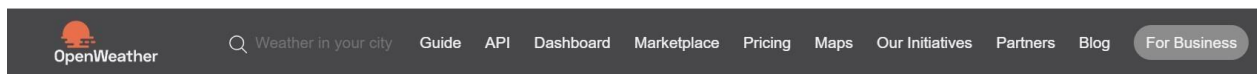
Develop a Python script

Date	4 November 2022
Team ID	PNT2022TMID17100
Project Name	Project - Signs with smart connectivity for Better road safety

Signs with smart connectivity for Better road safety

Create a code snippet using python to

1. Extract weather data from Open Weather Map using APIs
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it in the python compiler



Weather API

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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

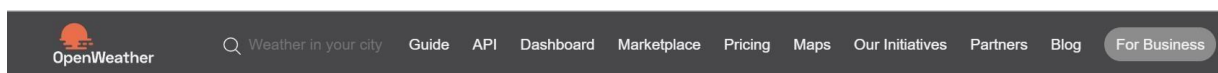
Read more about this API and subscription plan in the [FAQ](#).

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



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Weather in your city



 **Coimbatore, IN**  **moderate rain**
22.9°C temperature from 22.9 to 23.6 °C, wind 4.63 m/s, clouds 100 %, 1015 hpa
Geo coords [11, 76.9667]

test 1.py - C:\Users\viswa\OneDrive\Documents\ibm\py\weather\test 1.py (3.10.7)

File Edit Format Run Options Window Help

```
import requests, json
BASE_URL "https://api.openweathermap.org/data/2.5/weather?"
CITY- "Hyderabad"
API KEY "46faa4ab6fedeld9ae549b90d91253f2"
/upadting the URL
URL BASE_URL + "q " +CITY+ "&appid " + API KEY
* HTTP request
response requests.get(URL)
f checking the status code of the request
if response4status_code == 200:
    # getting data in the json format
    data response.json()
    # getting the main diet block
    main = data('main')
    # getting temperature
    temperature = main['temp']
    # getting the humidity
    humidity main['humidity']
    # getting the pressure
    pressure= main['pressure']
    # weather report
    report = data ['weather']
    print(f"{CITY:-'30}")
    print(f"Temperature: (temperature)")
    print(f"Humidity: {humidity}")
    print(f"Pressure: {pressure}")
    print(f"Weather Report: {report[0]['description']}")
else:
    # showing the error message
    print("Error in the HTTP request")
```

IDLE Shell 3.10.7

D X

File Edit Shell Debug Options Window Help

Python 3.10.7 (tag5/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (a AMD64)] on win32
Type "help", "copyright", "credit5" or "licen5e()" for more information.

```
>>>
===== RESTART: C:\U5er5\Vi5wa\OneDrive\Document5\ibm\py\weather\te5t 1.py
-----coimbatore-----
Temperature: 296.03
Humidity: 94
Pre55ure: 1015
Weather Report: moderate rain
>>>
```