


Develop a Python script

Date	31 October 2022
Team ID	PNT2022TMID52810
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 OpenWeatherMap using APIs
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it in the python compiler



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Weather API

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One Call API 3.0 ^{NEW}

API docSubscribe

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 include only One Call API.





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Weather in your city

Search



Coimbatore, IN  *mist*

25.9°C temperature from 25.3 to 25.9 °C, wind 2.57 m/s, clouds 75 %, 1012 hpa

Geo coords [11, 76.9667]

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.

```
open.py - C:\Users\Welcome\AppData\Local\Programs\Python\Python311\open.py (3.11.0)
File Edit Format Run Options Window Help
import requests, json
URL= "https://api.openweathermap.org/data/2.5/weather?q=Coimbatore,%20IN&appid=9"
CITY = "Coimbatore"
#HTTP request
response = requests.get(URL)
# checking the status code of the request
if response.status_code == 200:
    # getting data in the json format
    data = response.json()
    # getting the main dict 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")

Ln: 31 Col: 0
```

```
IDLE Shell 3.11.0
File Edit Shell Debug Options Window Help
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
=== RESTART: C:\Users\Welcome\AppData\Local\Programs\Python\Python311\open.py ==
-----Coimbatore-----
Temperature: 299.03
Humidity: 78
Pressure: 1012
Weather Report: mist
>>>
```