


Develop a python Script

Date	10 November 2022
Team ID	PNT2022TMID27330
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

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One Call API 3.0 **NEW**

API doc

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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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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.

Code Snippet

```
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

>>>