

Develop a python script

Team ID	PNT2022TMID48891
Project Name	Signs With Smart Connectivity For Better Road Safety

Signs with smart connectivity for Better road safety

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

The screenshot shows the OpenWeatherMap API website. The browser tabs include "(2) WhatsApp", "Weather API - OpenWeatherMap", and a plus sign for more tabs. The address bar shows "openweathermap.org/api". The navigation bar includes links for Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, Sign in, and Support. The main heading is "Weather API". Below this, a message encourages signing up for the fast and easy-to-work weather APIs. The "One Call API 3.0 NEW" section highlights a "Pay as you call" option with "1,000 API calls per day for free" and "0.0012 GBP per API call over the daily limit". A list of features for the One Call API includes: Minute forecast for 1 hour, Hourly forecast for 48 hours, Daily forecast for 8 days, Historical data for 40+ years back by timestamp, and National weather alerts. A "Subscribe to One Call by Call" button is present. The "Professional collections" section recommends professional collections for middle-sized projects, including Current & Forecasts collection, Historical weather data collection, Weather Maps collection, and other APIs. It also mentions an Enterprise license for enterprise-level projects. The page concludes with a link to the "How to Start" guide.

Weather in your city

dindigul

Search



Dindigul, IN broken clouds

24.3°C temperature from 24.3 to 24.3 °C, wind 1.73 m/s, clouds 69 %, 1014 hpa

Geo coords [10.35, 77.95]

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.

WeatherMap.py - C:/Users/HP/AppData/Local/Programs/Python/Python37/WeatherMap.py (3.7.0)

File Edit Format Run Options Window Help

```
import requests
a = "https://api.openweathermap.org/data/2.5/weather?q=Dindigul,%20IN&appid=1d87f4200b69d2d45dc5bee5b28e0f70"
r = requests.get(url=a)
data = r.json()
print(r)
print(data)
temp = data["main"]["temp"]
hum = data["main"]["humidity"]
print("Temperature is :",temp)
print("Humidity is :",hum)
```

Python 3.7.0 Shell

File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

= RESTART: C:/Users/HP/AppData/Local/Programs/Python/Python37/WeatherMap.py =

<Response [200]>

```
{'coord': {'lon': 77.95, 'lat': 10.35}, 'weather': [{'id': 804, 'main': 'Clouds', 'description': 'overcast clouds', 'icon': '04n'}], 'base': 'stations', 'main': {'temp': 296.31, 'feels_like': 296.98, 'temp_min': 296.31, 'temp_max': 296.31, 'pressure': 1014, 'humidity': 88, 'sea_level': 1014, 'grnd_level': 984}, 'visibility': 10000, 'wind': {'speed': 1.26, 'deg': 60, 'gust': 1.71}, 'clouds': {'all': 92}, 'dt': 1668529671, 'sys': {'country': 'IN', 'sunrise': 1668472993, 'sunset': 1668514948}, 'timezone': 19800, 'id': 1272543, 'name': 'Dindigul', 'cod': 200}
```

Temperature is : 296.31

Humidity is : 88

>>>