

# Develop a python script

Team ID	PNT2022TMID33212
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

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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](#).

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

### Professional collections

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For Enterprise level projects we provide Enterprise license, which is included all forecast products and current state, along with alerts, maps, and other products. [Learn more](#)

You can read the [How to Start](#) guide and enjoy using our powerful weather APIs right now

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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=1d87f4200b69d2d45dc5beefb28e0f70"
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
>>> |
```