

## DEVELOP THE PYTHON SCRIPT

Team ID	PNT2022TMID03059
Project Name	Signs with smart connectivity for better road safety

Create a code snippet using python to

- Extract weather data from OpenWeatherMap using APIs
- Send the extracted data to the cloud
- Receive data from the cloud and view it in the python compiler

OpenWeatherMap API keys page. The page displays a table of API keys and a 'Create key' button.

Key	Name	Status	Actions
c271dbebfc04d6472cc377fcafd5aace	Default	Active	
592bc1931f8569bdb101058e0be6b85c	Chennai,IN	Active	

**Create key**

API key name  Generate

**Product Collections**

- Current and Forecast APIs
- Historical Weather Data

**Subscription**

- How to start
- Pricing



**Company**

OpenWeather is a team of IT experts and data scientists that has been practising deep weather data science since 2014.

## Weather in your city

Coimbatore

Search

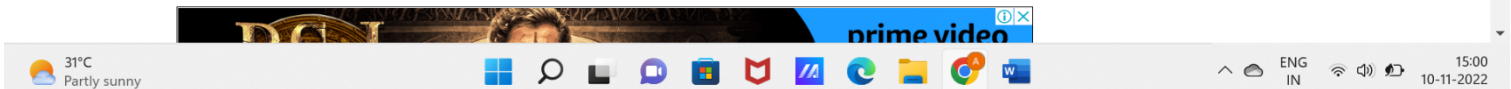
 **Coimbatore, IN**  *scattered clouds*

**30.9°C** temperature from 30.9 to 32 °C, wind 3.09 m/s. clouds 40 %, 1011 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.



## Weather in your city

Chennai

Search

 **Chennai, IN**  *haze*

**31°C** temperature from 31 to 31 °C, wind 6.69 m/s. clouds 75 %, 1009 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.



File Edit Format Run Options Window Help

```
import requests
api_data="https://api.openweathermap.org/data/2.5/weather?q=Namakkal"
rec=requests.get(url=api_data)
data=rec.json
print(data)
```

|

>>' and the output of the script. The output is a JSON object representing weather data for Namakkal, including coordinates, weather conditions (Haze), temperature, humidity, visibility, wind speed, and cloud cover. The prompt '==== RESTART: D:/Python/Python310/owm.py =====' is visible above the JSON output. The prompt '====' is also visible below the JSON output." data-bbox="70 483 937 787"/>

```
IDLE Shell 3.10.8
File Edit Shell Debug Options Window Help
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: D:/Python/Python310/owm.py =====
{'coord': {'lon': 78.4744, 'lat': 17.3753}, 'weather': [{'id': 721, 'main': 'Haze', 'description': 'haze', 'icon': '50d'}], 'base': 'stations', 'main': {'temp': 301.38, 'feels_like': 303.07, 'temp_min': 301.38, 'temp_max': 301.88, 'pressure': 1017, 'humidity': 61}, 'visibility': 5000, 'wind': {'speed': 3.6, 'deg': 90}, 'clouds': {'all': 40}, 'dt': 1666335428, 'sys': {'type': 1, 'id': 9214, 'country': 'IN', 'sunrise': 1666312830, 'sunset': 1666354845, 'timezone': 19800, 'id': 1269843, 'name': 'Hyderabad', 'cod': 200}}
>>>
====
```