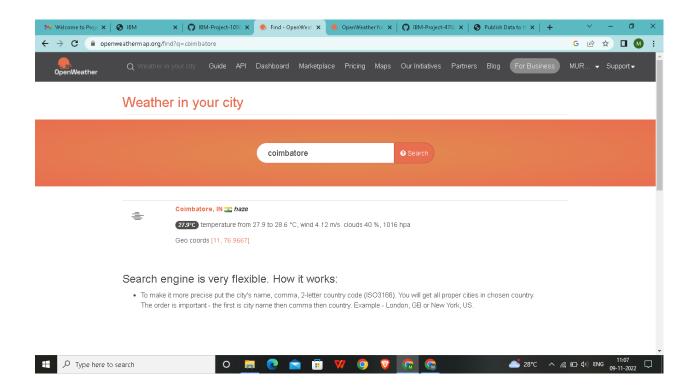**DEVELOP A PYTHON SCRIPT**

Date	31 october 2022
Team Id	PNT2022TMID12798
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

Code :

```
import requests
a="https://openweathermap.org/weathermap?basemap=map&cities=true&layer=temperature&lat=13.0878&lon=80.2785&zoom=12"
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)
```

File Edit Format Run Options Window Help

```python
import requests
a="https://api.openweathermap.org/data/2.5/weather?q=coimbatore,IN&appid=6d13d12f9cd34a07871a5795d01e2c47"
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 3.7.4 Shell

File Edit Shell Debug Options Window Help

```
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul  8 2019, 20:34:20) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==================== RESTART: C:/Python/Python37/eg.py ====================
<Response [200]>
{'coord': {'lon': 76.9667, 'lat': 11}, 'weather': [{'id': 721, 'main': 'Haze', '
description': 'haze', 'icon': '50d'}], 'base': 'stations', 'main': {'temp': 304.
03, 'feels_like': 305.76, 'temp_min': 304.03, 'temp_max': 304.03, 'pressure': 10
11, 'humidity': 51}, 'visibility': 5000, 'wind': {'speed': 3.09, 'deg': 60}, 'cl
ouds': {'all': 40}, 'dt': 1667902461, 'sys': {'type': 1, 'id': 9206, 'country':
'IN', 'sunrise': 1667868332, 'sunset': 1667910373}, 'timezone': 19800, 'id': 127
3865, 'name': 'Coimbatore', 'cod': 200}
Temperature is : 304.03
Humidity is : 51
>>>
```

Ln: 9 Col: 4

Ln: 2 Col: 63

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