DEVELOP A PYTHON SCRIPT

Date	18 september 2022
Team ID	PNT2022TMID13679
Project Name	Project – Signs with Smart Connectivity for Better Road Safety

SIGN WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

Create a code snippet using python to

1. Extract weather data from Open Weather Map using API's
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it from the python compiler

OpenWeather

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Weather in your city

bangalore   🔍 Search

Bengaluru, IN 🇮🇳 *overcast clouds*

19.9°C temperature from 19.9 to 19.9 °C, wind 2.95 m/s. clouds 100 %, 1015 hpa

Geo coords [12.9762, 77.6033]

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.

Product Collections   Subscription   Company

IBM PROJECT OBJ....pdf   Show all

25°C
Mostly cloudy

ENG US 9:58 pm 18/11/2022

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weatherMap.py - E:/IBM/pre/weatherMap.py (3.6.5)
File Edit Format Run Options Window Help

```python
import requests
a = "https://api.openweathermap.org/data/2.5/weather?q=Chennai,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 3.6.5 Shell
File Edit Shell Debug Options Window Help

```
<Response [200]>
Temperature is :  298.14
>>>

==================== RESTART: E:/IBM/pre/weatherMap.py =================
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<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'}], 'bas
e': 'stations', 'main': {'temp': 298.14, 'feels_like': 299.15, 'temp_min': 298.14, 'temp_ma
x': 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': 1
264527, 'name': 'Chennai', 'cod': 200}
Temperature is :  298.14
Humidity is :  94
>>>
```
Ln: 17 Col: 4

Ln: 10 Col: 26