**Develop a Python script**

| Date | 12 September 2022 |
|---|---|
| Team ID | PNT2022TMID48351 |
| Project Name | Project – Smart solution for railways |
| Maximum Marks | 4 Marks |

**<u>Smart solution for railways</u>**

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
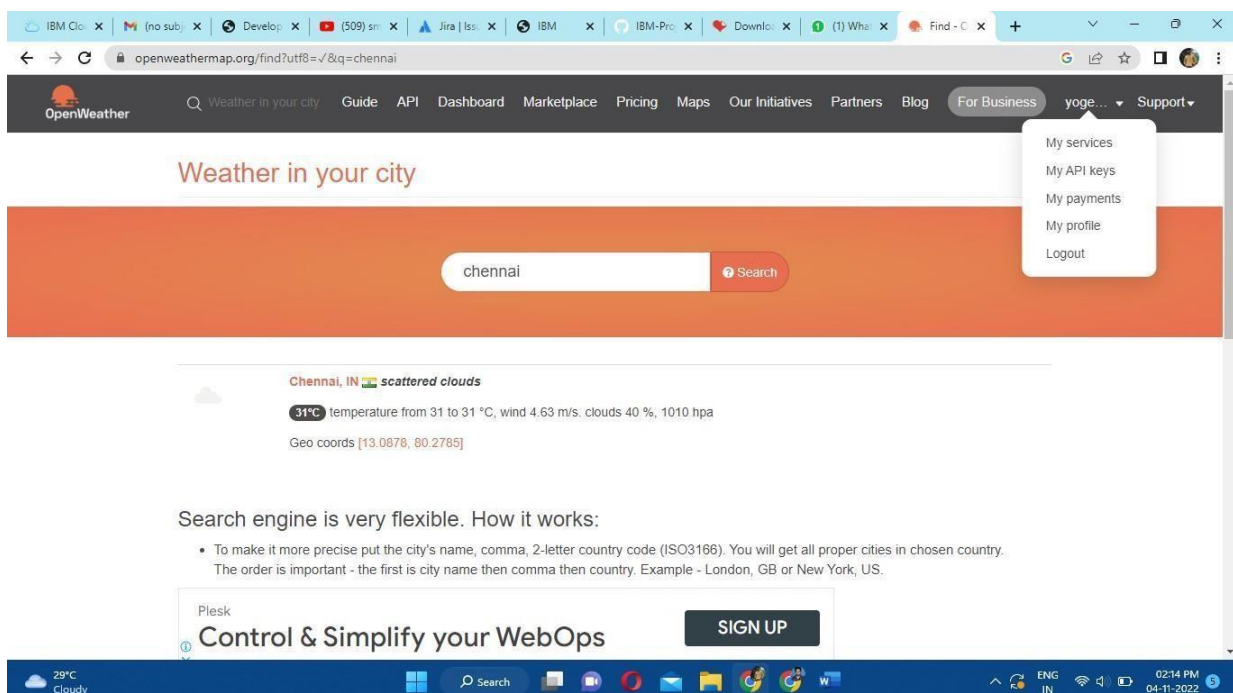
New Products    Services    API keys    Billing plans    Payments    Block logs    My orders    My profile    Ask a question

## Historical weather for any location

Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection.

- Historical weather data available for **ANY** coordinate
- The depth of historical data have been extended to **40 YEARS**

You can download data from Personal account or contact us to order it.

Learn more          Go to purchase

## Weather Dashboard

Activate Windows
Go to Settings to activate Windows.

The OpenWeather Dashboard is a lightweight and flexible visual tool for our customers who would

```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 ==================
====
<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
>>>
```