Develop a Python script

Date	17 November 2022
Team ID	PNT2022TMID40702
Project Name	Project – Smart solution for railways
Maximum Marks	4 Marks

Smart solution for railways

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
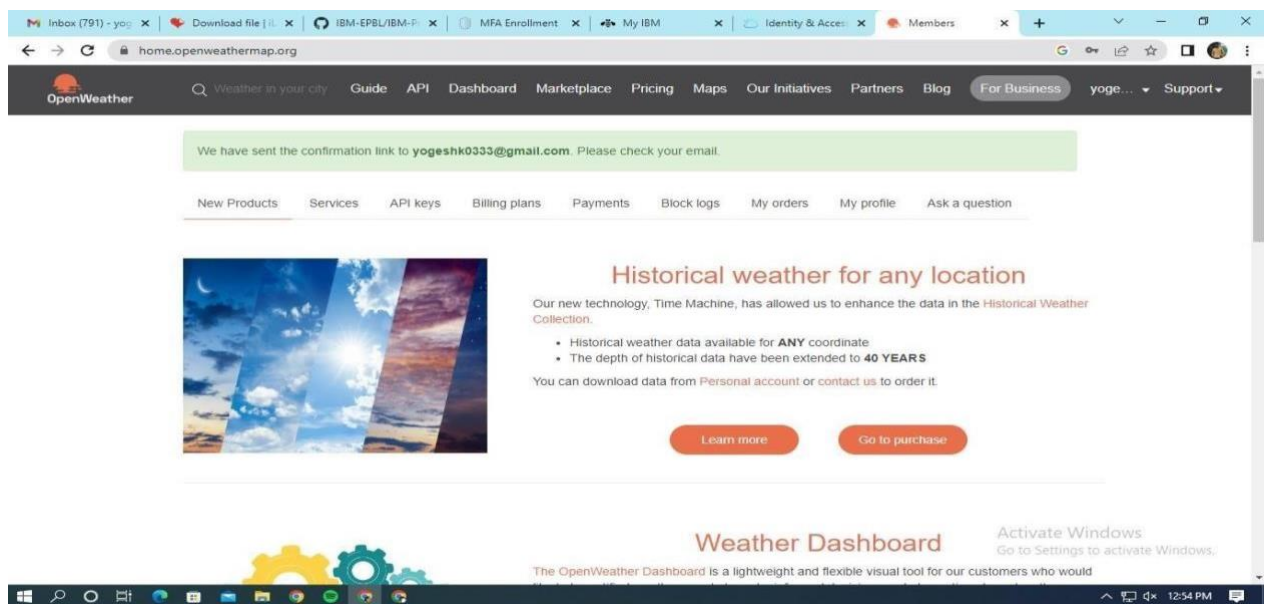
← → C 🔒 openweathermap.org/find?utf8=√&q=chennai

OpenWeather

🔍 Weather in your city   Guide   API   Dashboard   Marketplace   Pricing   Maps   Our Initiatives   Partners   Blog   For Business   yoge... ▼   Support ▼

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Weather in your city

chennai	🔍 Search

Chennai, IN 🇮🇳 *scattered clouds*

31°C temperature from 31 to 31 °C, wind 4.63 m/s. clouds 40 %, 1010 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.

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 ====================
====
<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'}], 'base': 'stations', 'main': {'temp': 298.14, 'feels_like': 299.15, 'temp_min': 298.14, 'temp_max': 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': 1264527, 'name': 'Chennai', 'cod': 200}
Temperature is :  298.14
Humidity is :  94
>>>
```

Ln: 17 Col: 4

Ln: 10 Col: 26