

Develop the Python Script

(Develop a Python script)

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| Date | 04 November 2022 |
| Team ID | PNT2022TMID16771 |
| Project Name | Industry-Specific Intelligent Fire Management System |
| Maximum Marks | 4 Marks |

Create a code snippet using python to

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

The screenshot shows a web browser window with the OpenWeather website. The address bar shows 'home.openweathermap.org'. A green confirmation banner at the top states: 'We have sent the confirmation link to msajithkumar948@gmail.com. Please check your email.' Below this is a navigation menu with links: New Products, Services, API keys, Billing plans, Payments, Block logs, My orders, My profile, and Ask a question. The main content area features two promotional banners. The first banner, titled 'Historical weather for any location', includes an image of a sunset and text describing the 'Time Machine' technology, which enhances historical weather data. It lists two bullet points: 'Historical weather data available for ANY coordinate' and 'The depth of historical data have been extended to 40 YEARS'. It also mentions that data can be downloaded from a 'Personal account' or by contacting them. There are two buttons: 'Learn more' and 'Go to purchase'. The second banner, titled 'Weather Dashboard', includes an image of a dashboard with various weather charts and text describing it as a 'lightweight and flexible visual tool'. It lists two bullet points: 'Track the main weather parameters: temperature, wind speed, precipitations' and 'Weather data are updated every hour'.

OpenWeatherMap Account confirmed

home.openweathermap.org

OpenWeather

Weather in your city

Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business Ajith... Support

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

The **OpenWeather Dashboard** is a lightweight and flexible visual tool for our customers who would like to be notified weather events to make informed decisions and plan actions based on the weather input.

- Track the main weather parameters: temperature, wind speed, precipitations
- Weather data are updated every hour
- Global coverage - Choose any location on the globe
- Email notifications

Learn more Try now

77°F Haze

OpenWeatherMap Account confirmed

home.openweathermap.org

OpenWeather

Weather in your city

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

Notice X
Your email address has been successfully confirmed.

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Show desktop

77°F Haze

OUTPUT:

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

import requests
a = "https://api.openweathermap.org/data/2.5/weather?q=Chennai,IN&appid=6d13d12f9cd34a07871a5795d01e2c47"
r = requests.get(uri = 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': 1667262754, 'sunset': 1667304738, 'timezone': 19800, 'id': 1264527, 'name': 'Chennai', 'cod': 200}
Temperature is : 298.14
Humidity is : 94
>>>
```

Ln: 10 Col: 26

