

Develop the Python Script

(Develop a Python script)

Date	17 NOVEMBER 2022
Team ID	PNT2022TMID24427
Project Name	Industry-specific intelligent fire management system

Industry-specific intelligent fire management system

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

Eigateela Nikhila

The screenshot shows a web browser window with the OpenWeatherMap website. The address bar shows 'home.openweathermap.org'. The page has a dark navigation bar with links like Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, Nikhila, and Support. A green confirmation message states: 'We have sent the confirmation link to nikhilaeigateela2002@gmail.com. Please check your email.' Below this is a horizontal 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 about the 'Time Machine' technology, listing features like 'Historical weather data available for ANY coordinate' and 'The depth of historical data have been extended to 40 YEARS'. It also has 'Learn more' and 'Go to purchase' buttons. The second banner, titled 'Weather Dashboard', includes an image of a dashboard with charts and text describing it as a 'lightweight and flexible visual tool'. It lists features like 'Track the main weather parameters: temperature, wind speed, precipitations' and 'Weather data are updated every hour'.

Jaladanki Sucharitha

The screenshot shows the OpenWeather website with a confirmation message at the top: "We have sent the confirmation link to charitha241201@gmail.com. Please check your email." The navigation bar includes links for Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, and Support. Below the navigation bar, there is a section for "Historical weather for any location" featuring a vertical strip of weather images and text stating: "Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection." It lists features: "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. Two buttons, "Learn more" and "Go to purchase", are present. Below this is a "Weather Dashboard" section with an illustration of a dashboard and text describing it as a "lightweight and flexible visual tool". It lists features: "Track the main weather parameters: temperature, wind speed, precipitations" and "Weather data are updated every hour". The bottom of the page shows a weather widget for 78°F Partly cloudy and a Windows taskbar with the date 11/17/2022.

Bollineni Sreeja

The screenshot shows the OpenWeather website with a confirmation message at the top: "We have sent the confirmation link to sreejachowdary2002@gmail.com. Please check your email." The navigation bar is identical to the previous screenshot, but the "For Business" link is replaced by "Sreeja". Below the navigation bar, the "Historical weather for any location" section is identical to the previous screenshot. The "Weather Dashboard" section is also identical. The bottom of the page shows the same weather widget and Windows taskbar.

Yuvanthi.K


Sent Mail - nikhilaeigateela2002 x Members x IBM x openweathermap.org - Yahoo Se x Members x

home.openweathermap.org

OpenWeather Weather in your city Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business Yuv... Support

We have sent the confirmation link to yuvanthiyuvanthi@gmail.com. Please check your email.

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

78°F Partly cloudy

ENG IN 9:37 PM 11/17/2022

Nivetha Shree


Sent Mail - nikhilaeigateela2002 x Members x IBM x openweathermap.org - Yahoo Se x Members x

home.openweathermap.org

OpenWeather Weather in your city Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business Nive... Support

We have sent the confirmation link to shreedharshan30@gmail.com. Please check your email.

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

78°F Partly cloudy

ENG IN 9:38 PM 11/17/2022

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(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: 10 Col: 26