

Develop the Python Script

(Develop a Python script)

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| Team ID | PNT2022TMID12811 |
| 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

PRAVISHAW CM:

The screenshot shows a web browser window with the OpenWeatherMap website. The address bar shows 'home.openweathermap.org'. A green confirmation message at the top states: 'We have sent the confirmation link to hariharan07ananth@gmail.com. Please check your email.' Below this, a navigation bar includes links like 'New Products', 'Services', 'API keys', 'Billing plans', 'Payments', 'Block logs', 'My orders', 'My profile', and 'Ask a question'. A large banner for 'Historical weather for any location' features a collage of sky images and text stating: 'Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection.' It lists two bullet points: 'Historical weather data available for ANY coordinate' and 'The depth of historical data have been extended to 40 YEARS'. A button 'Learn more' is visible. A OneDrive notification box on the right says 'Screenshot saved The screenshot was added to your OneDrive.' The Windows taskbar at the bottom shows the date as 09-11-2022 and time as 14:37.

open weather - Yahoo India Search x Find - OpenWeatherMap x +

openweathermap.org/find?utf8=✓&q=chennai

OpenWeather

Weather in your city

chennai Search

Chennai, IN 🇮🇳 haze

31°C temperature from 31 to 31 °C, wind 5.14 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.

hapag-lloyd.com

Taking a while?

GET QUOTE

32°C Cloudy

Windows taskbar icons: File Explorer, Edge, Chrome, etc.

System tray: ENG IN, 15:10, 09-11-2022

BRINDHA B :

open weather - Yahoo India Search x Members x +

home.openweathermap.org

OpenWeather

Weather in your city

Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business Gohul R Support

We have sent the confirmation link to gokulhsirk713@psnacet.edu.in. 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

32°C Cloudy

Windows taskbar icons: File Explorer, Edge, Chrome, etc.

System tray: ENG IN, 14:40, 09-11-2022

PRIYADHARSHINI R :

The screenshot shows the OpenWeather website in a web browser. The address bar displays 'home.openweathermap.org'. The navigation bar includes links for 'Weather in your city', 'Guide', 'API', 'Dashboard', 'Marketplace', 'Pricing', 'Maps', 'Our Initiatives', 'Partners', 'Blog', 'For Business', and a user profile 'Joshv...'. A green confirmation message states: 'We have sent the confirmation link to joshvav@psnacet.edu.in. 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 a large image of a sky with clouds and a sun. To the right of the image, the heading 'Historical weather for any location' is displayed. Below the heading, a paragraph states: 'Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection.' This is followed by two bullet points: 'Historical weather data available for ANY coordinate' and 'The depth of historical data have been extended to 40 YEARS'. A line of text says: 'You can download data from Personal account or contact us to order it.' At the bottom of the banner are two orange buttons: 'Learn more' and 'Go to purchase'. The browser's taskbar at the bottom shows the system clock as 14:45 on 09-11-2022, along with various system icons and the weather '32°C Cloudy'.

SWETHA M:

This screenshot is identical to the one above, showing the OpenWeather website. The confirmation message now reads: 'We have sent the confirmation link to jeevanadham@psnacet.edu.in. Please check your email.' The user profile in the navigation bar is 'Jeeva...'. The rest of the page content, including the promotional banner for historical weather data, remains the same. The system clock in the taskbar shows 14:48 on 09-11-2022.

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