

# Develop the Python Script

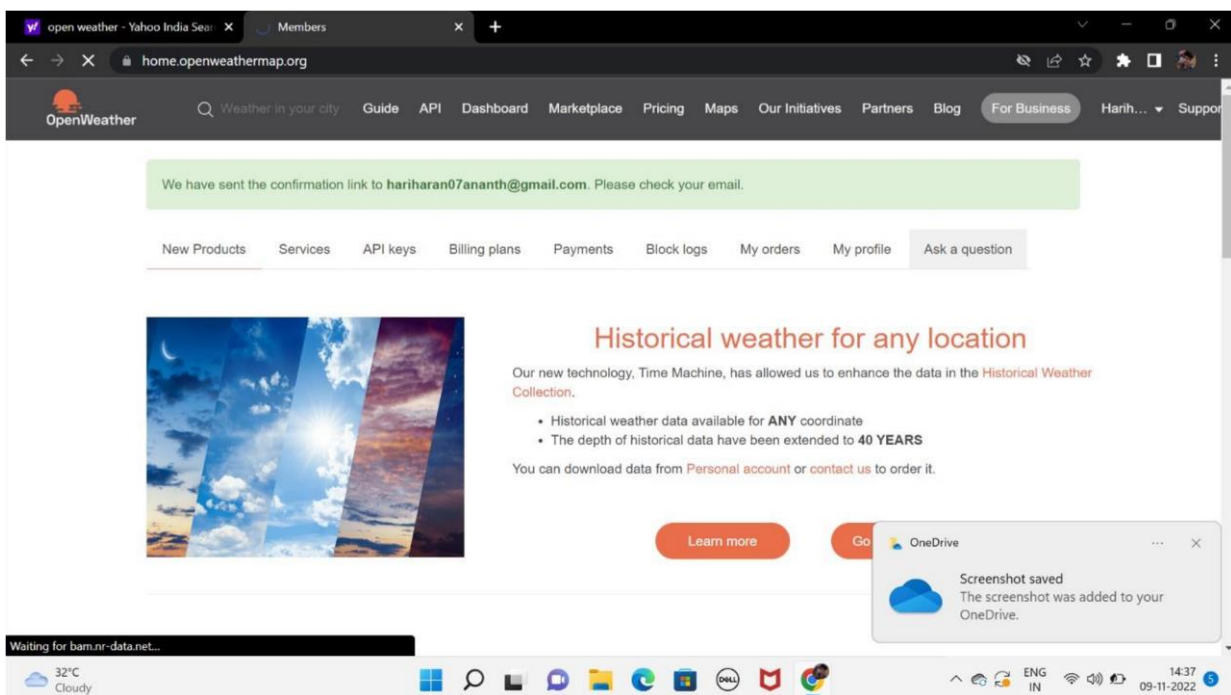
(Develop a Python script)

Team ID	PNT2022TMID08358
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 the OpenWeatherMap website with the search bar containing "chennai". The weather data for Chennai, IN is displayed, showing a temperature of 31°C, a range from 31 to 31 °C, wind speed of 5.14 m/s, 40% clouds, and 1010 hpa. The geo-coordinates are [13.0878, 80.2785]. Below the weather data, there is a section titled "Search engine is very flexible. How it works:" with a bullet point explaining that the city name and country code (ISO3166) should be used for precise results. An example is given: "London, GB" or "New York, US". A search bar with "hapag-lloyd.com" and a "GET QUOTE" button are also visible. The bottom of the page shows a taskbar with various application icons and a system tray with the date and time (15:10, 09-11-2022).

open weather - Yahoo India Sea 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

15:10 09-11-2022

The screenshot shows the OpenWeatherMap website with the "Members" tab selected. A green notification bar at the top states: "We have sent the confirmation link to gokulhsirk713@psnacet.edu.in. Please check your email." Below this, there is a navigation bar 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 section titled "Historical weather for any location" with a sub-header "Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection." Below this, there are two bullet points: "Historical weather data available for ANY coordinate" and "The depth of historical data have been extended to 40 YEARS". A note states: "You can download data from Personal account or contact us to order it." At the bottom of the section, there are two buttons: "Learn more" and "Go to purchase". The bottom of the page shows a taskbar with various application icons and a system tray with the date and time (14:40, 09-11-2022).

open weather - Yahoo India Sea x Members x +

home.openweathermap.org

OpenWeather Weather in your city

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

14:40 09-11-2022

open weather - Yahoo India Search Members


home.openweathermap.org

OpenWeather

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

We have sent the confirmation link to [joshvav@psnacet.edu.in](mailto:joshvav@psnacet.edu.in). Please check your email.

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### 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

14:45 09-11-2022

SWETHA M:

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home.openweathermap.org

OpenWeather

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

We have sent the confirmation link to [jeevanadham@psnacet.edu.in](mailto:jeevanadham@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

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[Learn more](#) [Go to purchase](#)

32°C Cloudy

14:48 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