

Develop the Python Script

(Develop a Python script)

Date	13 NOVEMBER 2022
Team ID	PNT2022TMID53304
Project Name	Industry-specific intelligent fire management system
Maximum Marks	4 Marks

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

HARIHARAN A:

The screenshot shows a web browser window with the OpenWeatherMap website. The address bar shows 'home.openweathermap.org'. A green notification bar at the top states: 'We have sent the confirmation link to hariharan07ananth@gmail.com. Please check your email.' Below this, there 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 a large image of a sunset/sunrise over a body of water, with the text 'Historical weather for any location' in red. Below this, it says 'Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection.' and lists two bullet points: 'Historical weather data available for ANY coordinate' and 'The depth of historical data have been extended to 40 YEARS'. At the bottom, it says 'You can download data from Personal account or contact us to order it.' There are two orange buttons: 'Learn more' and 'Go'. A OneDrive notification box is visible on the right side, stating 'Screenshot saved' and 'The screenshot was added to your OneDrive.' The Windows taskbar at the bottom shows the system clock as 14:37 on 09-11-2022, and the weather as 32°C Cloudy.

open weather - Yahoo India Search | Find - OpenWeatherMap

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

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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

GOHUL R :

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home.openweathermap.org

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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

JOSHVA :

The screenshot shows the OpenWeather website with a confirmation message at the top: "We have sent the confirmation link to joshvav@psnacet.edu.in. Please check your email." Below this 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 large image of a sunset and the heading "Historical weather for any location". The text below the heading states: "Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection." and 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: "You can download data from Personal account or contact us to order it." At the bottom of the main content area are two buttons: "Learn more" and "Go to purchase". The footer shows the current weather as 32°C Cloudy and the system tray with various icons and the date 09-11-2022.

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home.openweathermap.org

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We have sent the confirmation link to joshvav@psnacet.edu.in. Please check your email.

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

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Learn more Go to purchase

32°C Cloudy

09-11-2022

JEEVANANDAM KT:

The screenshot shows the OpenWeather website with a confirmation message at the top: "We have sent the confirmation link to jeevanadham@psnacet.edu.in. Please check your email." Below this 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 large image of a sunset and the heading "Historical weather for any location". The text below the heading states: "Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection." and 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: "You can download data from Personal account or contact us to order it." At the bottom of the main content area are two buttons: "Learn more" and "Go to purchase". The footer shows the current weather as 32°C Cloudy and the system tray with various icons and the date 09-11-2022.

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Learn more Go to purchase

32°C Cloudy

09-11-2022

OUTPUT:

```
weatherMap.py - E:/IBM/pre/weatherMap.py (3.6.3)
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