

# Develop the Python Script

(Develop a Python script)

Date	12 November 2022
Team ID	PNT2022TMID53637
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 confirmation message states: 'We have sent the confirmation link to hariharan07ananth@gmail.com. Please check your email.' Below this, there are links for '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'. Below the heading, 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'. A button labeled 'Learn more' is visible. A OneDrive notification bubble in the bottom right corner says: 'Screenshot saved 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 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

GOHUL R :

open weather - Yahoo India Search x Members x +

home.openweathermap.org

OpenWeather

We have sent the confirmation link to [gokulhsirk713@psnacet.edu.in](mailto: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: "We have sent the confirmation link to [joshvav@psnacet.edu.in](mailto:joshvav@psnacet.edu.in). Please check your email." The navigation bar includes links for New Products, Services, API keys, Billing plans, Payments, Block logs, My orders, My profile, Ask a question, For Business, and Support. The main content area features a large image of a sunset and the heading "Historical weather for any location". Below the heading, it 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." There 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.

JEEVANANDAM KT:

The screenshot shows the OpenWeather website with a confirmation message: "We have sent the confirmation link to [jeevanadham@psnacet.edu.in](mailto:jeevanadham@psnacet.edu.in). Please check your email." The navigation bar includes links for New Products, Services, API keys, Billing plans, Payments, Block logs, My orders, My profile, Ask a question, For Business, and Support. The main content area features a large image of a sunset and the heading "Historical weather for any location". Below the heading, it 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." There 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.

## 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 3.6.3 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: 17 Col: 4

Ln: 10 Col: 26