

# Develop the Python Script

(Develop a Python script)

Date	13 November 2022
Team ID	PNT2022TMID24481
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

PELLURU MANASA:

The screenshot shows the OpenWeatherMap website in a browser. The address bar displays 'home.openweathermap.org'. A green confirmation banner at the top states: 'We have sent the confirmation link to manasapelluru01@gmail.com. Please check your email.' Below this, a navigation bar includes 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 two promotional banners. The first banner, titled 'Historical weather for any location', highlights the 'Time Machine' technology and lists features: 'Historical weather data available for ANY coordinate' and 'The depth of historical data have been extended to 40 YEARS'. It includes buttons for 'Learn more' and 'Go to purchase'. The second banner, titled 'Weather Dashboard', describes it as a 'lightweight and flexible visual tool' and 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 Windows taskbar with the system clock at 09:23 PM on 17-11-2022.

POLU TEJASWINI REDDY:

The screenshot shows a web browser with multiple tabs open, including GitHub, IBM, and various IBM services. The active tab is the OpenWeather website at `home.openweathermap.org`. The page features a dark navigation bar with the OpenWeather logo and a search bar. A green confirmation message at the top states: "We have sent the confirmation link to `tejaswinipolu@gmail.com`. Please check your email."

Below the message 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 highlights two services:

- Historical weather for any location**: Accompanied by an image of a sunset. The text describes the "Time Machine" technology and lists features: historical data for **ANY** coordinate and data depth 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 provided.
- Weather Dashboard**: Accompanied by an image of a dashboard with charts and gears. The text describes it as a "lightweight and flexible visual tool" for customers who want to be notified of weather events. It lists features: tracking main parameters (temperature, wind speed, precipitation) and hourly data updates. Buttons for "Learn more" and "Go to purchase" are also present.

The bottom of the page shows a Windows taskbar with the system clock at 09:30 PM on 17-11-2022, and the weather as 30°C Haze.

DEEPIKA M :


home.openweathermap.org

OpenWeather Weather in your city

Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business dee... Support

We have sent the confirmation link to [munagacheriadeepika@gmail.com](mailto:munagacheriadeepika@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

30°C Haze

Search the web

ENG IN 09:37 PM 17-11-2022

CHANDHANA RC:


home.openweathermap.org

OpenWeather Weather in your city

Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business cha... Support

We have sent the confirmation link to [chandhanarc015@gmail.com](mailto:chandhanarc015@gmail.com). 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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### Weather Dashboard

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- Track the main weather parameters: temperature, wind speed, precipitations
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30°C Haze

Search the web

ENG IN 09:39 PM 17-11-2022

## 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