

# Develop the Python Script

(Develop a Python script)

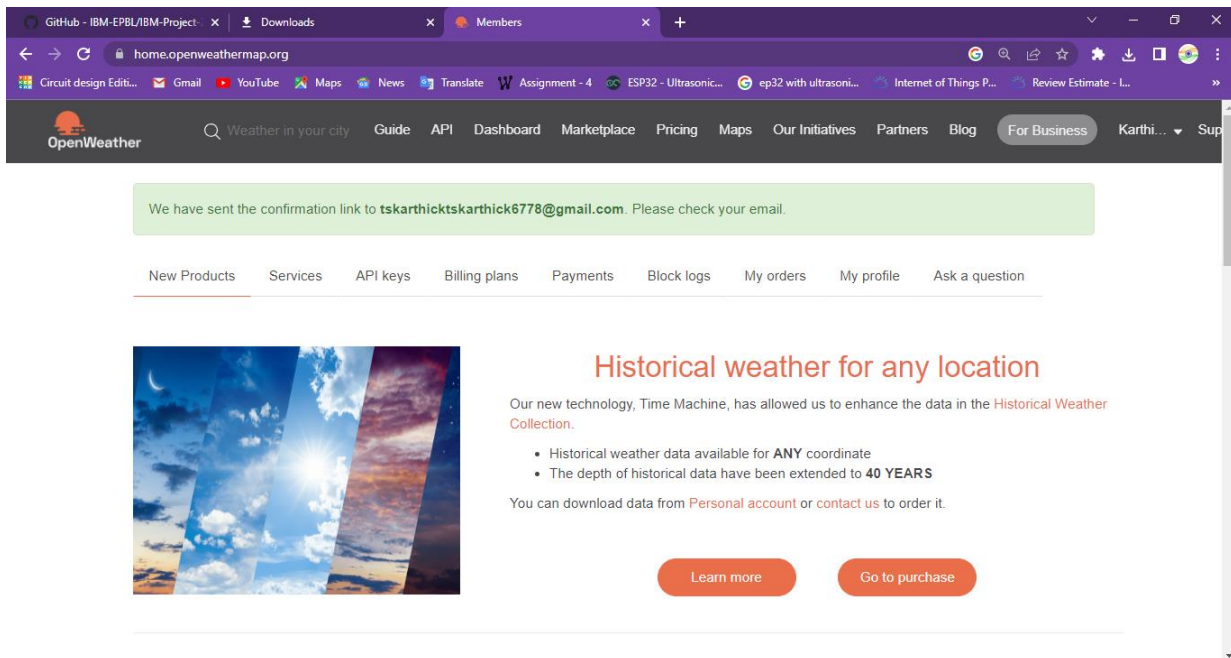
Date	04 November 2022
Team ID	PNT2022TMID47980
Project Name	Industry-Specific Intelligent Fire Management System
Maximum Marks	4 Marks

## Industry-Specific Intelligent Fire Management System

Create a code snippet using python to

1. Extract weather data from Open Weather Map using APIs
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it in the python compiler

KARTHICK T S:



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 tskarthicktskarthick6778@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 a large image of a sunset over a body of water. To the right of the image, the heading 'Historical weather for any location' is displayed in orange. 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 below the bullets says: 'You can download data from Personal account or contact us to order it.' At the bottom right, there are two orange buttons: 'Learn more' and 'Go to purchase'.

IBM-P... Downloads Open... Fin... Open... W sketch... Downl... Downl... W Industr... Service IBM W... Devel... Gmail tick sy... +


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

Circuit design Editi... Gmail YouTube Maps News Translate W Assignment - 4 ESP32 - Ultrasonic... ep32 with ultrasoni... Internet of Things P... Review Estimate - L...

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

## Weather in your city

---

 **Chennai, IN** haze

**28°C** temperature from 28 to 28 °C, wind 4.63 m/s, clouds 75 %, 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.

Jira Service Management

**Start free for 3 agents**

**KUMARAN K J:**

GitHub - IBM-EPBL/IBM-Project... Downloads OpenWeatherMap Account confi... Members

home.openweathermap.org


Circuit design Editi... Gmail YouTube Maps News Translate W Assignment - 4 ESP32 - Ultrasonic... ep32 with ultrasoni... Internet of Things P... Review Estimate - L...

OpenWeather Weather in your city Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business Karthi... Sup

Notice

Your email address has been successfully confirmed.

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



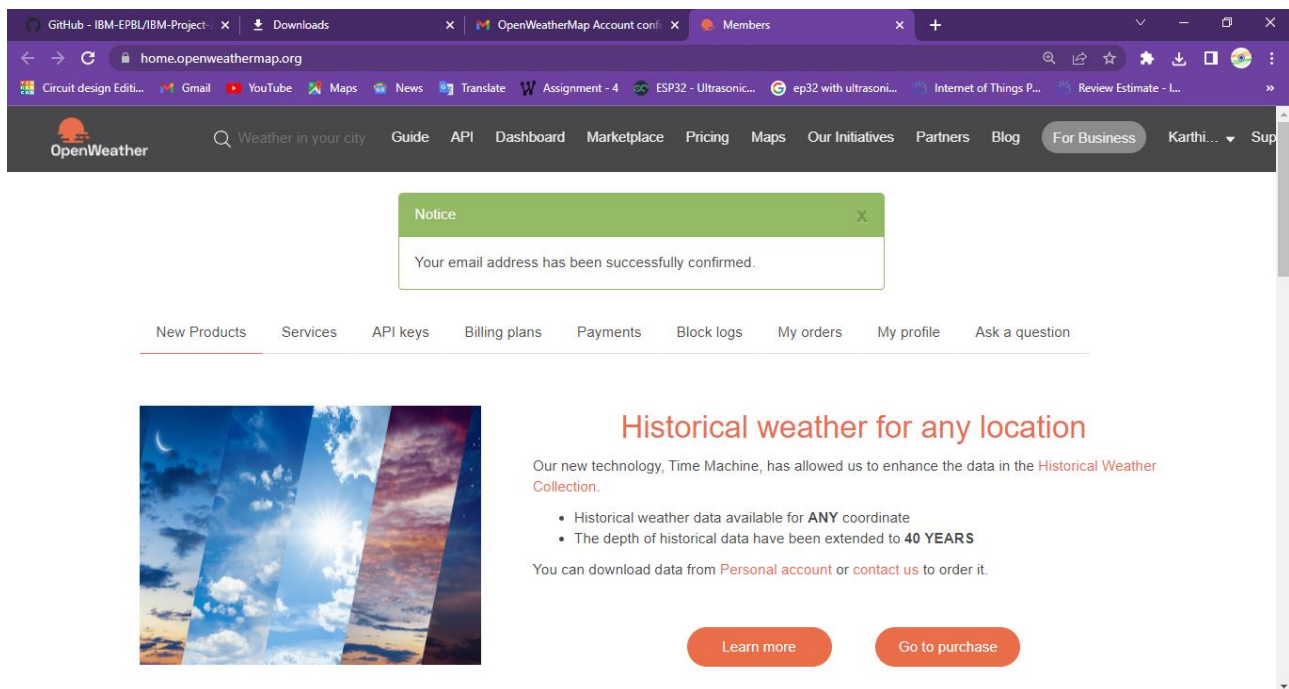
## Historical weather for any location

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.

KARTHIGA SREE TG:



The screenshot shows the OpenWeatherMap website in a web browser. The browser's address bar displays 'home.openweathermap.org'. A green notification box at the top center contains the text 'Your email address has been successfully confirmed.'. Below this, a horizontal menu lists various services: 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 in red. 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 a bulleted list: '• Historical weather data available for ANY coordinate' and '• The depth of historical data have been extended to 40 YEARS'. Below the list, a line of text says: 'You can download data from Personal account or contact us to order it.' At the bottom right, there are two orange buttons: 'Learn more' and 'Go to purchase'.

home.openweathermap.org

Notice

Your email address has been successfully confirmed.

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

Historical weather for any location

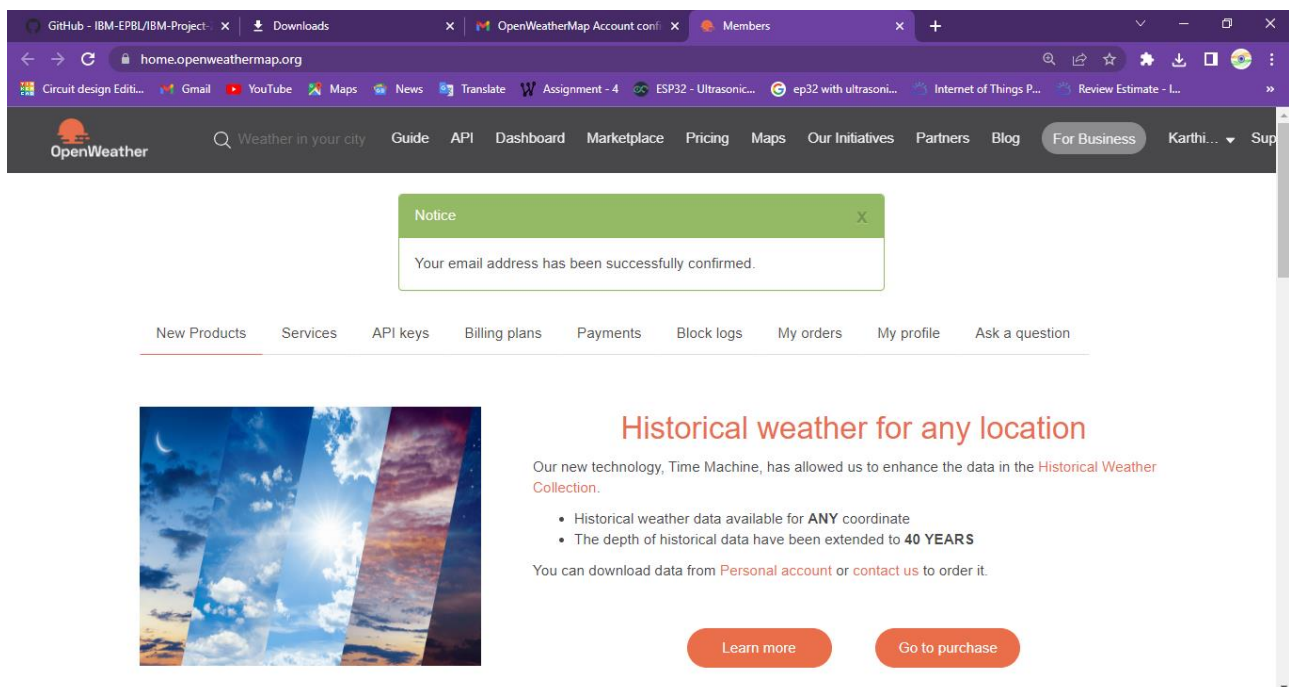
Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection.

- 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

SHARAN S :



This screenshot is identical to the one above, showing the OpenWeatherMap website with the same confirmation message, navigation menu, and promotional banner for historical weather data.

home.openweathermap.org

Notice

Your email address has been successfully confirmed.

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

## 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