

Develop the Python Script

(Develop a Python script)

Team ID : PNT2022TMID51404

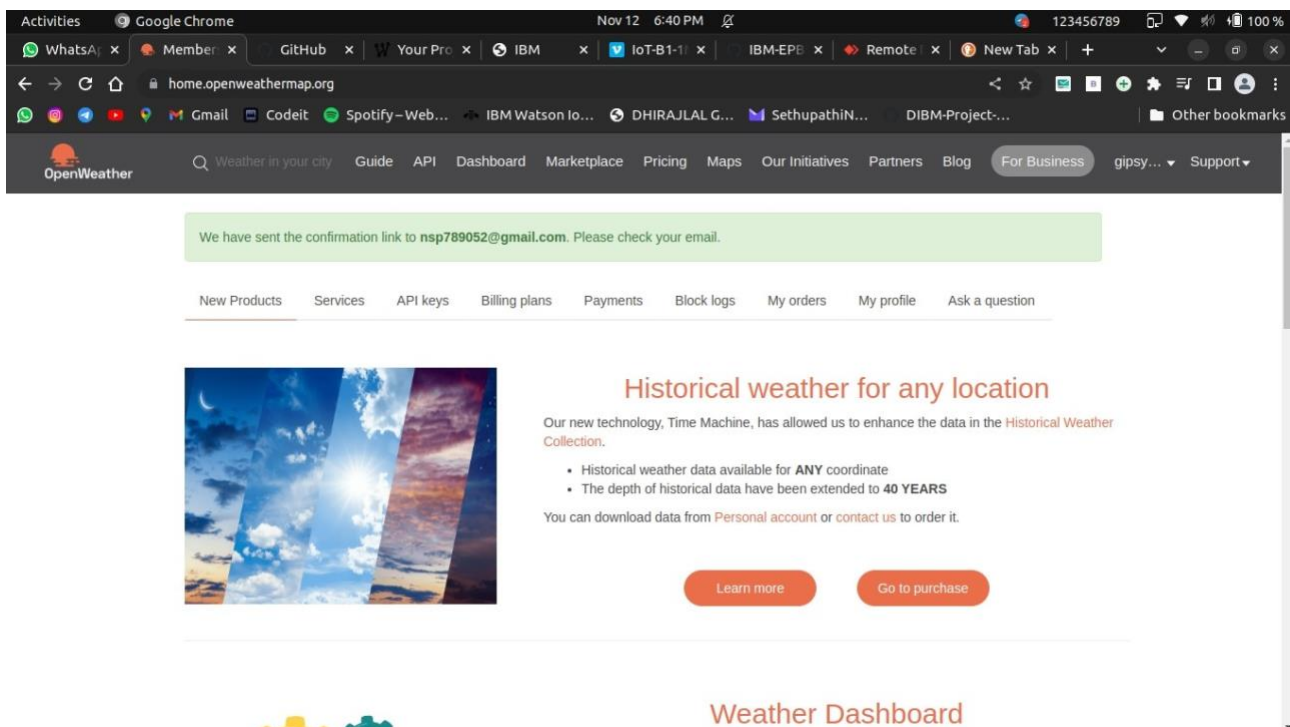
IBM ID : IBM-Project-48689-1660811489

Industry-specific intelligent fire management system

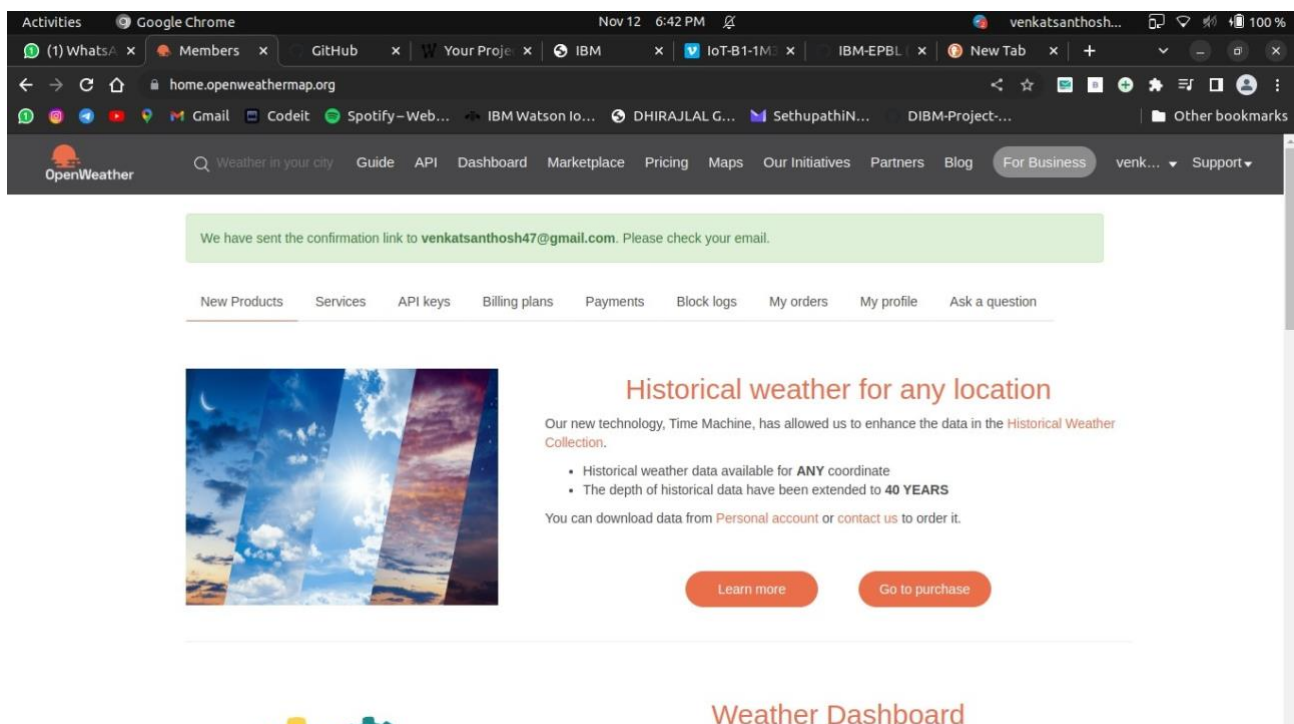
Create a code snippet using python to

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

1*Team Member Weather account ID



The screenshot shows the OpenWeatherMap website in a Google Chrome browser. The address bar displays 'home.openweathermap.org'. A green notification bar at the top states: 'We have sent the confirmation link to nsp789052@gmail.com. Please check your email.' Below this, a navigation menu includes '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 reads: 'Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection.' It lists two bullet points: 'Historical weather data available for ANY coordinate' and 'The depth of historical data have been extended to 40 YEARS'. Below the list, it says 'You can download data from Personal account or contact us to order it.' At the bottom of the section are two orange buttons: 'Learn more' and 'Go to purchase'. The footer of the page shows a 'Weather Dashboard' with a colorful weather icon.




This screenshot is identical to the one above, showing the OpenWeatherMap website. The notification bar now states: 'We have sent the confirmation link to venkatsanthosh47@gmail.com. Please check your email.' The rest of the page content, including the navigation menu, the 'Historical weather for any location' section with its image, text, bullet points, and buttons, remains the same. The footer also shows the 'Weather Dashboard' with the weather icon.

Activities Google Chrome Nov 12 7:13 PM prabuprithvi20...

home.openweathermap.org

We have sent the confirmation link to prabuprithvi2000@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

Activities Google Chrome Nov 12 7:14 PM vinothkalam212...

home.openweathermap.org

We have sent the confirmation link to vinothkalam2127@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](#).

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

Weather Dashboard

3* python compiler

```
Activities Google Chrome Nov 12 7:28 PM https://api.op...
(1) x Me x Cu x IB x IB x IB x IB x IB x IB x IB x hti x
api.openweathermap.org/data/2.5/weather?q=Salem,%20IN&appid=a79601c0cdc478a74c835c8517859fbf
{"coord":{"lon":78.1667,"lat":11.65},"weather":[{"id":804,"main":"Clouds","description":"overcast clouds","icon":"04n"}],"base":"stations","main":{"temp":296.13,"feels_like":296.96,"temp_min":296.13,"temp_max":296.13,"pressure":1012,"humidity":95,"sea_level":1012,"grnd_level":979},"visibility":10000,"wind":{"speed":1.15,"deg":89,"gust":1.5},"clouds":{"all":100},"dt":1668261480,"sys":{"country":"IN","sunrise":1668213777,"sunset":1668255603},"timezone":19800,"id":1257629,"name":"Salem","cod":200}
```

```
Activities Terminal Nov 12 7:45 PM Omalur, IN
Open test.py ~/Documents

import requests
a="https://api.openweathermap.org/data/2.5/weather?q=Omalur,IN,IN&appid=8185f4665523467898915cea10b4c85f"
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)

sp@GIPSY: ~/Documents
ls
bookmarks_11_11_2022.html 'Chrome Passwords.csv' TBomb test.py
sp@GIPSY:~/Documents$ python3 test.py
<Response [200]>
{'coord': {'lon': 78.0456, 'lat': 11.741}, 'weather': [{'id': 804, 'main': 'Clouds', 'description': 'overcast clouds', 'icon': '04n'}], 'base': 'stations', 'main': {'temp': 295.9, 'feels_like': 296.74, 'temp_min': 295.9, 'temp_max': 295.9, 'pressure': 1012, 'humidity': 96, 'sea_level': 1012, 'grnd_level': 980}, 'visibility': 10000, 'wind': {'speed': 0.92, 'deg': 101, 'gust': 1.13}, 'clouds': {'all': 100}, 'dt': 1668262548, 'sys': {'country': 'IN', 'sunrise': 1668213814, 'sunset': 1668255625}, 'timezone': 19800, 'id': 1261049, 'name': 'Omalur', 'cod': 200}
Temperature is: 295.9
Humidity is: 96
sp@GIPSY:~/Documents$
```