

# Develop the Python Script

## (Develop a Python script)

Team ID : PNT2022TMID18894

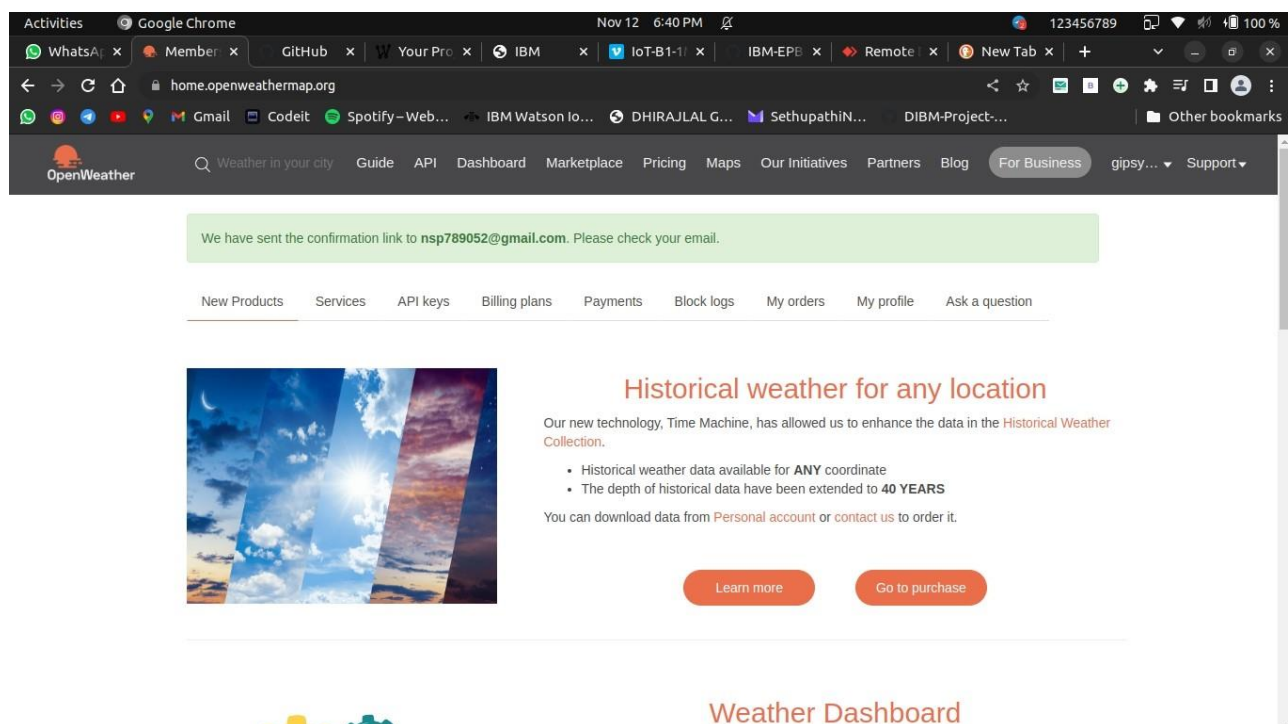
IBM ID : IBM-Project-31900-1660206003

Industry-specific intelligent fire management system

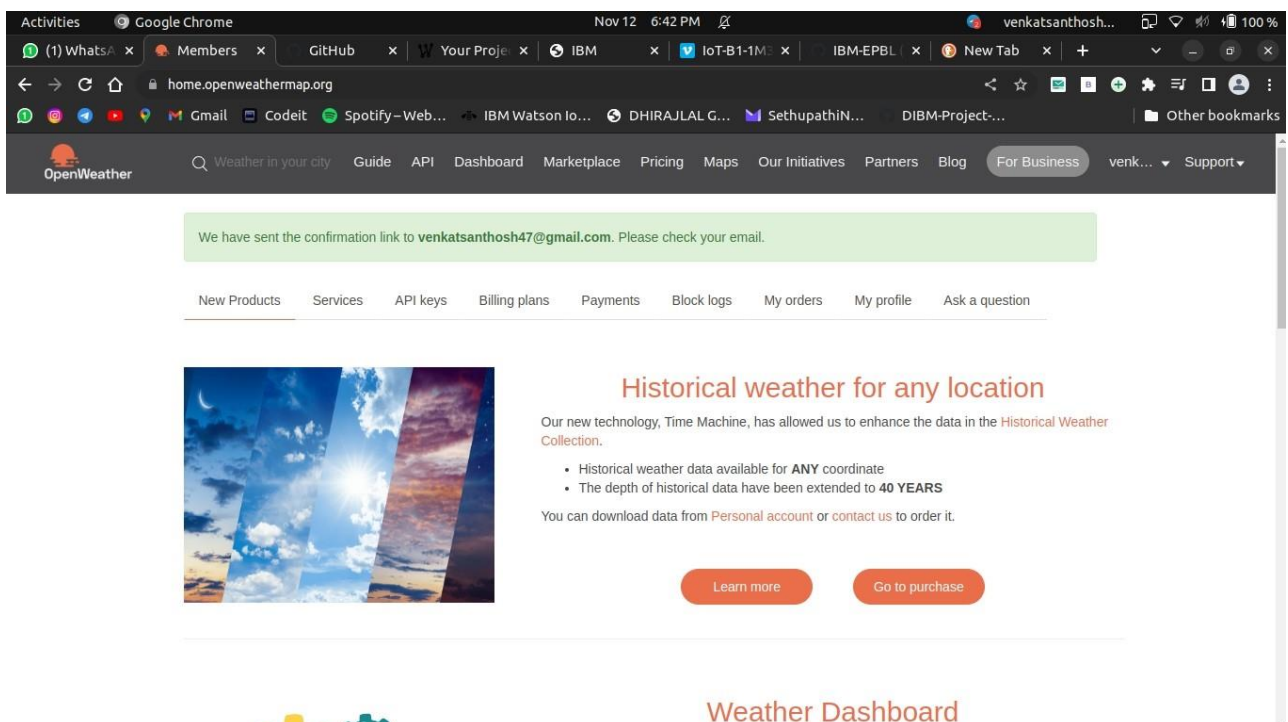
## Create a code snippet using python to

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



This screenshot shows the OpenWeatherMap account page for the user `nsp789052@gmail.com`. The browser's address bar shows `home.openweathermap.org`. A green confirmation message at the top states: "We have sent the confirmation link to `nsp789052@gmail.com`. Please check your email." The 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". Below this, a text block describes the "Time Machine" technology 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 states, "You can download data from Personal account or contact us to order it." At the bottom of this section are two buttons: "Learn more" and "Go to purchase". The footer shows a "Weather Dashboard" link.



This screenshot shows the OpenWeatherMap account page for the user `venkatsanthosh47@gmail.com`. The browser's address bar shows `home.openweathermap.org`. A green confirmation message at the top states: "We have sent the confirmation link to `venkatsanthosh47@gmail.com`. Please check your email." The 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". Below this, a text block describes the "Time Machine" technology 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 states, "You can download data from Personal account or contact us to order it." At the bottom of this section are two buttons: "Learn more" and "Go to purchase". The footer shows a "Weather Dashboard" link.


Activities Google Chrome Nov 12 7:13 PM prabuprithvi2000... 100 %

home.openweathermap.org

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

We have sent the confirmation link to [prabuprithvi2000@gmail.com](mailto: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... 100 %

home.openweathermap.org

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

We have sent the confirmation link to [vinothkalam212@gmail.com](mailto:vinothkalam212@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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[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 Cur x IBN x IBN x IBN x IBN x IBN x IBN x IBN 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': 11.7411}, '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$
```