

Develop the Python Script

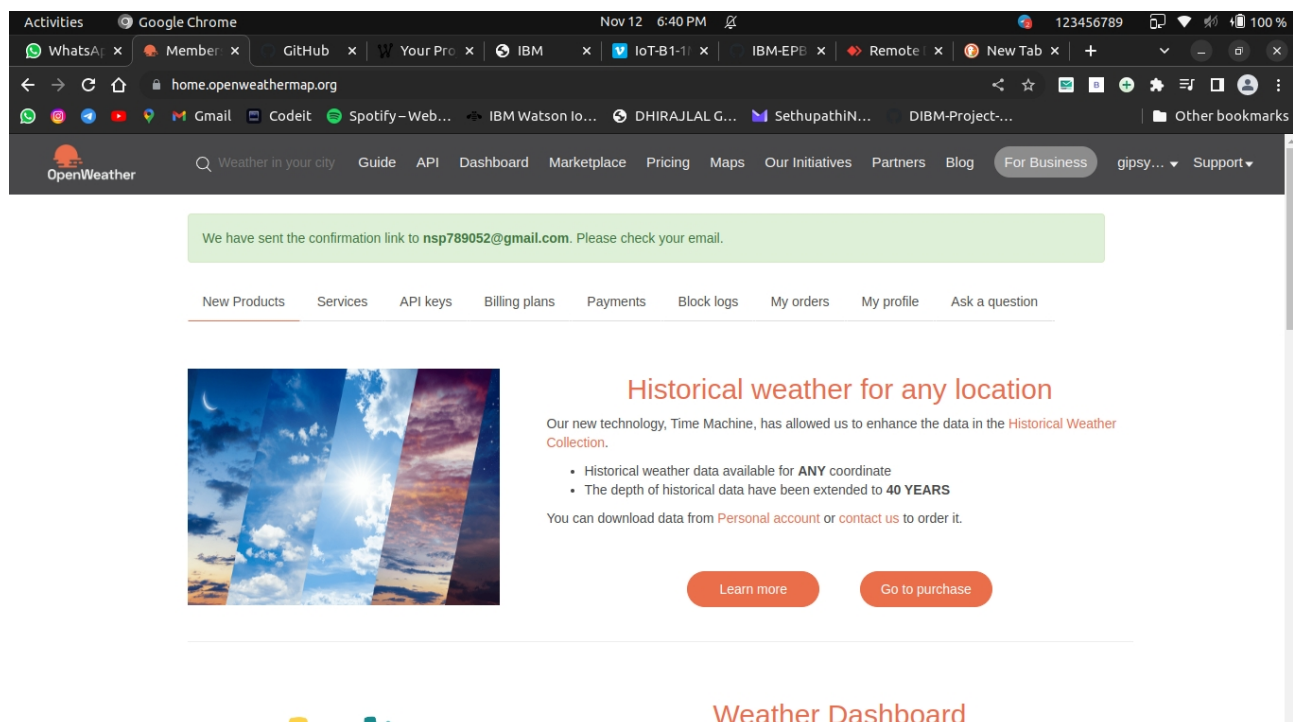
(Develop a Python script)

Team ID : PNT2022TMID17079

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



Activities Google Chrome Nov 12 6:40 PM 123456789

WhatsApp x Member x GitHub x Your Pro x IBM x IoT-B1-1 x IBM-EPBL x Remote x New Tab x +


home.openweathermap.org

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Historical weather for any location

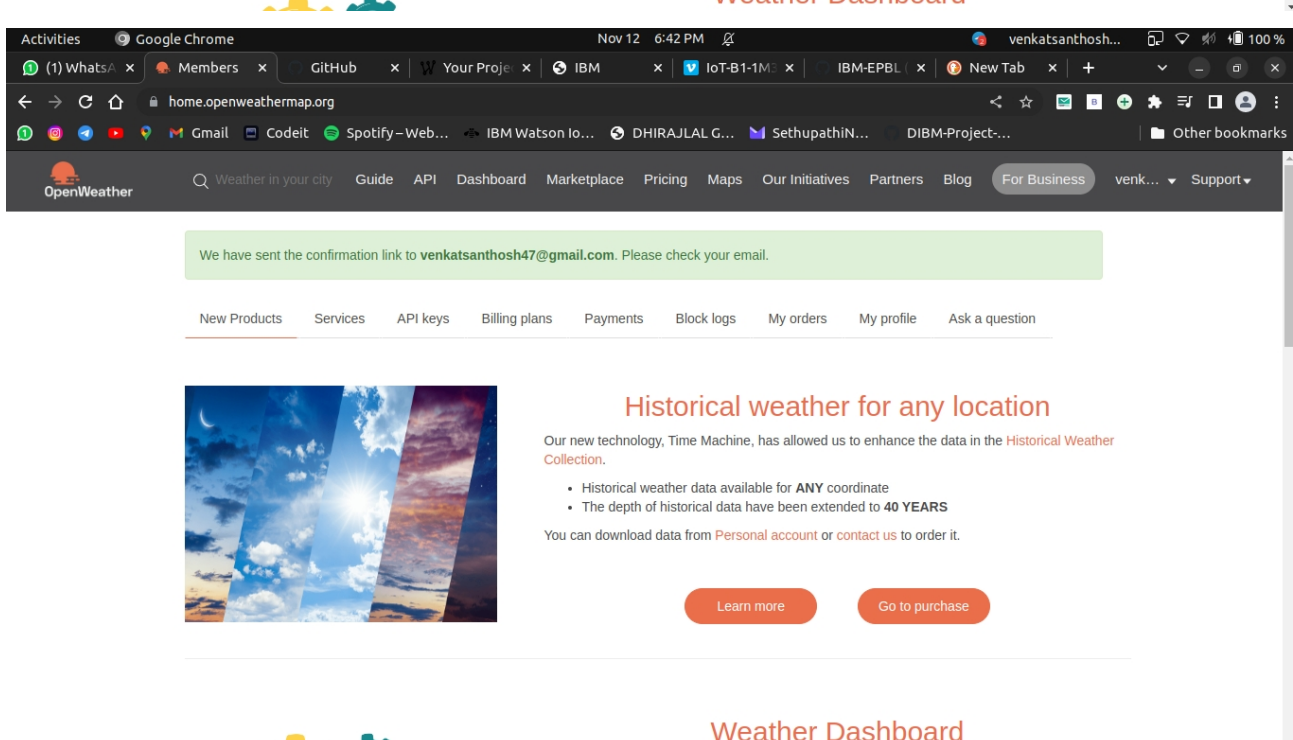
Our new technology, Time Machine, has allowed us to enhance the data in the [Historical Weather Collection](#).

- Historical weather data available for **ANY** coordinate
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Weather Dashboard



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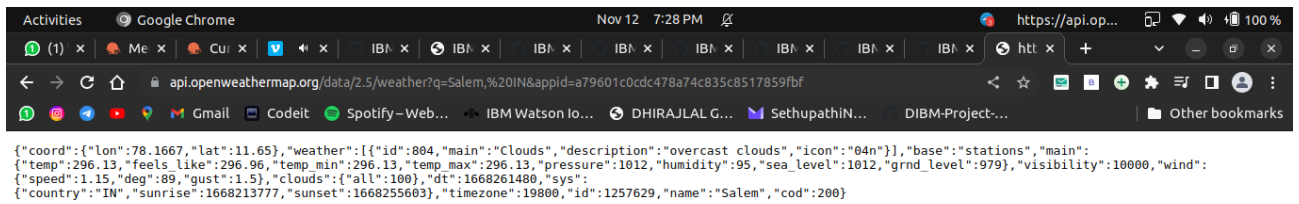


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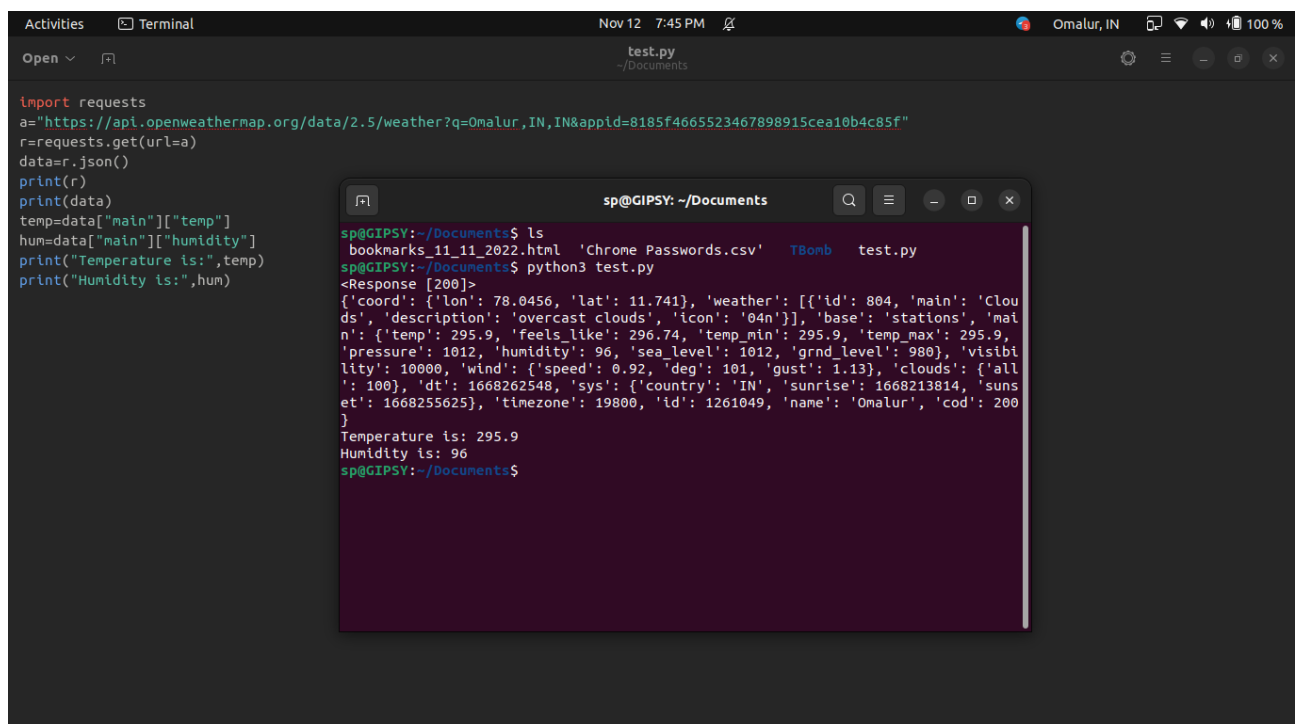


Weather Dashboard

3* python compiler



```
{
  "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
    }
  }
}
```



```
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  TBonb  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}}, 'temp': 295.9, 'humidity': 96
sp@GIPSY: ~/Documents$
```