

Develop the Python Script

(Develop a Python script)

Team ID : PNT2022TMID07779

IBM ID : IBM-Project-31900-1660300084

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 image shows two screenshots of the OpenWeatherMap website. The top screenshot shows a confirmation message: "We have sent the confirmation link to nsp789052@gmail.com. Please check your email." Below this, there is a navigation bar with links like "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". It describes 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". There are buttons for "Learn more" and "Go to purchase". The bottom screenshot is identical but shows a different confirmation email: "venkatsanthosh47@gmail.com".

Activities Google Chrome Nov 12 6:40 PM 123456789 100 %

home.openweathermap.org

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

We have sent the confirmation link to nsp789052@gmail.com. Please check your email.

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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
- The depth of historical data have been extended to **40 YEARS**

You can download data from [Personal account](#) or [contact us](#) to order it.

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Weather Dashboard

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Weather Dashboard

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

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We have sent the confirmation link to prabuprithvi2000@gmail.com. Please check your email.

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

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We have sent the confirmation link to vinothkalam2127@gmail.com. Please check your email.

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Historical weather for any location

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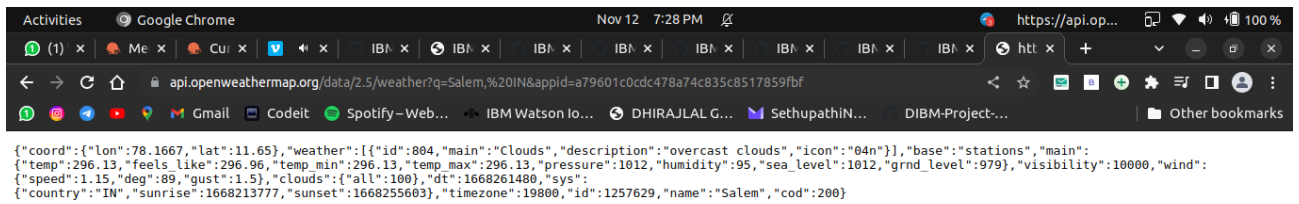
You can download data from [Personal account](#) or [contact us](#) to order it.

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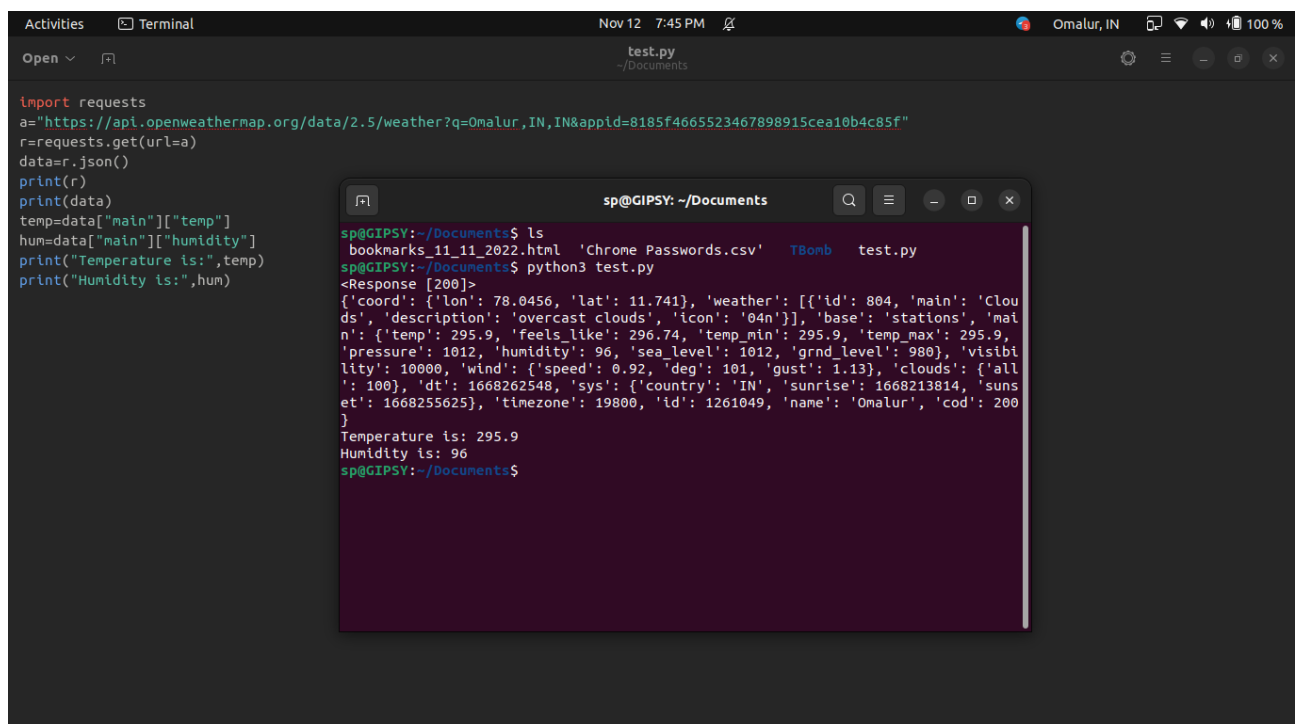


Weather Dashboard

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$
```