

DEVELOP A PYTHON SCRIPT

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Team ID	PNT2022TMID45391
Project Name	Project-Industry-specific intelligent fire management system

Submitted by:

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Program:

import requests

```
a=" https://api.openweathermap.org/data/2.5/weather?q=Tiruchirappalli,IN&appid=cdcf6d9df110802bc06396b408d863c3"
```

```
r=requests.get(url=a)
```

```
data=r.json()
```

```
print(r)
```

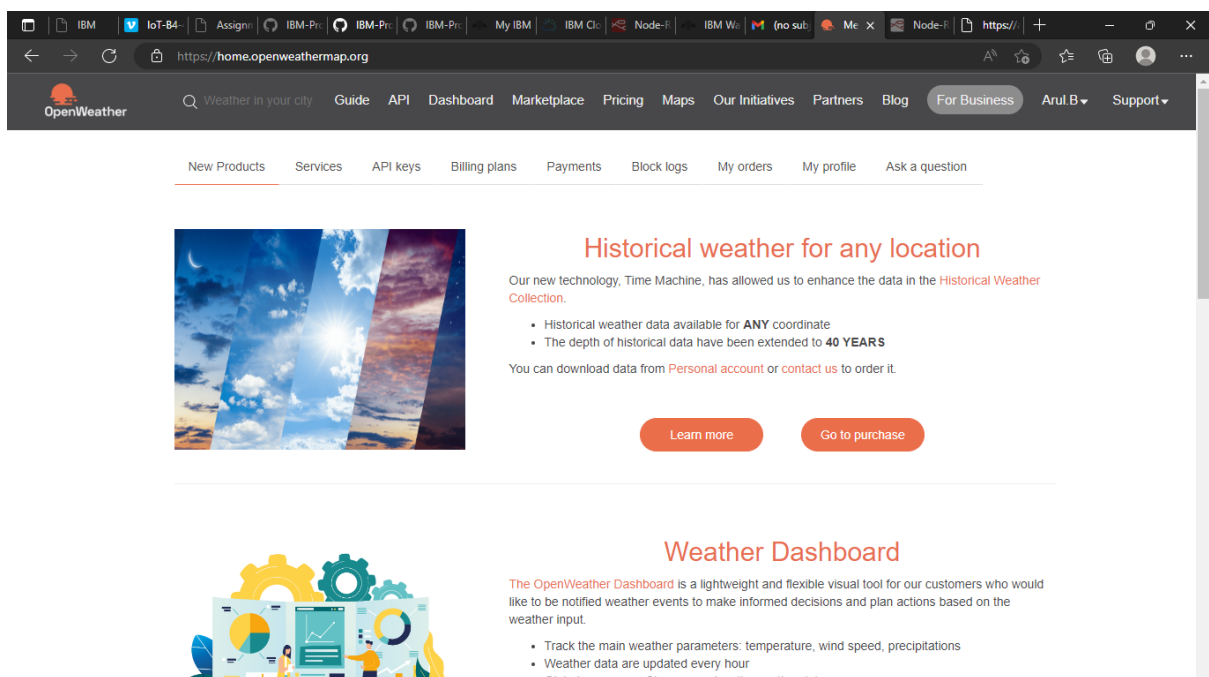
```
print(data)
```

```
temp=data["main"]["temp"]
```

```
hum=data["main"]["humidity"]
```

```
print("Temperature is:",temp)
```

```
print("Humidity is:",hum)
```



The screenshot displays the OpenWeather website interface. The top navigation bar includes links for Weather in your city, Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, Arul.B, and Support. Below the navigation bar, there is a section titled 'Historical weather for any location' which highlights the 'Time Machine' technology and offers historical weather data for any coordinate, extending back to 40 years. A 'Learn more' button is visible. The bottom section, titled 'Weather Dashboard', describes a lightweight visual tool for tracking weather parameters like temperature, wind speed, and precipitation, with a 'Go to purchase' button.

```
IBM IoT-B4 Assign IBM-Pr IBM-Pr IBM-Pr My IBM IBM Cl Node- IBM Wi Reset p Memb Node- htt x + - x
https://api.openweathermap.org/data/2.5/weather?q=Tiruchirappalli,%20IN&appid=cdfcf6df110802bc06396b408d863c3
{"coord":{"lon":78.6833,"lat":10.8167},"weather":[{"id":721,"main":"Haze","description":"haze","icon":"50d"}],"base":"stations","main":{"temp":301.21,"feels_like":303.28,"temp_min":301.21,"temp_max":301.21,"pressure":1009,"humidity":65},"visibility":2500,"wind":{"speed":2.06,"deg":70},"clouds":{"all":40},"dt":1668681722,"sys":{"type":1,"id":9227,"country":"IN","sunrise":1668645703,"sunset":1668687531},"timezone":19800,"id":1254388,"name":"Tiruchirappalli","cod":200}
```

IBM IoT-B4 Assign IBM-Pr IBM-Pr IBM-Pr My IBM IBM Cl Node- IBM Wi Reset p Me x Node- https:// + - x

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

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

You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.

Key	Name	Status	Actions
f8a39023c952df488c5108610d9eb6c5	Default	Active	<div><div></div><div></div><div></div></div>
cdfcf6df110802bc06396b408d863c3	Tiruchirappalli	Active	<div><div></div><div></div><div></div></div>

Create key

API key name

Generate

Product Collections

Current and Forecast APIs

Historical Weather Data

Weather Maps

Weather Dashboard

Widgets

Subscription

How to start

Pricing

Subscribe for free

FAQ

Company

OpenWeather is a team of IT experts and data scientists that has been practising deep weather data science since 2014. For each point on the globe, OpenWeather provides historical, current and forecasted weather data via light-speed APIs. Headquarters in London, UK.

```
weather.py - D:/IBM/weather.py (3.7.0)
File Edit Format Run Options Window Help

import requests
a="https://api.openweathermap.org/data/2.5/weather?q=Tiruchirappalli,%20IN&appid=c0cf6d6df110802bc06396b408d863c3"
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)
```

Ln: 2 Col: 113

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:/IBM/weather.py =====
<Response [200]>
{'coord': {'lon': 78.6833, 'lat': 10.8167}, 'weather': [{'id': 721, 'main': 'Haze', 'description': 'haze', 'icon': '50d'}], 'base': 'stations', 'main': {'temp': 301.21, 'feels_like': 303.28, 'temp_min': 301.21, 'temp_max': 301.21, 'pressure': 1009, 'humidity': 65}, 'visibility': 2500, 'wind': {'speed': 2.06, 'deg': 70}, 'clouds': {'all': 40}, 'dt': 1668682371, 'sys': {'type': 1, 'id': 9227, 'country': 'IN', 'sunrise': 1668645703, 'sunset': 1668687531, 'timezone': 19800, 'id': 1254388, 'name': 'Tiruchirappalli', 'cod': 200}}
Temperature is: 301.21
Humidity is: 65
>>> |
```

Ln: 9 Col: 4