

DEVELOP A PYTHON SCRIPT

TEAM ID	PNT2022TMID10960
PROJECT NAME	INDUSTRY-SPECIFIC INTELLIGENT FIRE MANAGEMENT

Create a python code

1. Extract weather data from Open Weather Map using APIs
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it in the python compiler

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Weather Dashboard

The OpenWeather Dashboard is a lightweight and flexible visual tool for our customers who would like to be notified weather events to make informed decisions and plan actions based on the weather input.

- Track the main weather parameters: temperature, wind speed, precipitations
- Weather data are updated every hour

30°C Haze Search the web ENG IN 09:23 PM 17-11-2022

OUTPUT:

The screenshot shows a Windows desktop environment with two windows open. The top window is a Python 3.6.5 Shell titled 'Python 3.6.5 Shell'. It displays the output of a script named 'weatherMap.py' which fetches weather data for Chennai, IN. The script uses the 'requests' library to make a GET request to the OpenWeatherMap API. The output in the shell shows the JSON response, which includes coordinates, weather conditions, and various temperature metrics. The bottom window is the 'weatherMap.py' file itself, showing the code in a code editor.

```
import requests
a = "https://api.openweathermap.org/data/2.5/weather?q=Chennai,IN&appid=6d13d12f9cd34a07871a5795d01e2c47"
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)
```

```
<Response [200]>
Temperature is : 298.14
>>>
=====
RESTART: E:/IBM/pre/weatherMap.py =====
=====
<Response [200]>
{"coord": {"lon": 80.2785, "lat": 13.0878}, "weather": [{"id": 701, "main": "Mist", "description": "mist", "icon": "50n"}, {"id": 500, "main": "Rain", "description": "light rain", "icon": "10n"}], "base": "stations", "main": {"temp": 298.14, "feels_like": 299.15, "temp_min": 298.14, "temp_max": 298.14, "pressure": 1012, "humidity": 94}, "visibility": 2500, "wind": {"speed": 1.54, "deg": 350}, "rain": {"1h": 0.12}, "clouds": {"all": 75}, "dt": 1667317416, "sys": {"type": 1, "id": 9218, "country": "IN", "sunrise": 1667262751, "sunset": 1667304738}, "timezone": 19800, "id": 1264527, "name": "Chennai", "cod": 200}
Temperature is : 298.14
Humidity is : 94
>>>
```