

Develop the Python Script

(Develop a Python script)

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Team ID	PNT2022TMID016363
Project Name	Industry-specific intelligent fire management system
Maximum Marks	4 Marks

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**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

OpenWeather

Weather forecasts, nowcasts and history in a fast and elegant way

Search city Search

Nov 11, 05:17am
London, GB

15°C

Feels like 14°C. Broken clouds. Moderate breeze

5.7m/s SSW 1023hPa
Humidity: 84% Dew point: 12°C
Visibility: 10.0km

No precipitation within an hour

Hourly forecast

8-day forecast

25°C Raining now

OpenWeather

Weather in your city

Search city Search

Nov 11, 10:50am
Chennai, IN

25°C

Feels like 26°C. Moderate rain. Gentle Breeze

2.37mm 4.6m/s NE
1012hPa Humidity: 94% UV: 0
Dew point: 24°C Visibility: 2.1km

Precipitation won't end within an hour

Hourly forecast

8-day forecast

25°C Raining now

Output:

weatherMap.py - E:/IBM/pra/weatherMap.py (3.6.5)

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```
import requests
```

```
a = "https://api.openweathermap.org/data/2.5/weather?q=Chennai,IN&appid=60c228610e938899246792483e8048f9"
```

```
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)
```

Python 3.6.5 Shell

File Edit Shell Debug Options Window Help

```
<Response [200]>
```

```
Temperature is : 298.14
```

```
>>>
```

```
===== REST =====
```

```
<Response [200]>
```

```
{'coord': {'lon': 80.2785, 'lat': 13.0826}, 'weather': [{'id': 800, 'main': 'clear', 'description': 'clear sky', 'icon': '01n'}], 'base': 'stations', 'main': {'temp': 298.14, 'feels_like': 298.14, 'pressure': 1012, 'humidity': 94, 'dew_point': 350}, 'rain': {'1h': 0.12}, 'clouds': {'all': 0}, 'country': 'IN', 'sunrise': 1667262645, 'sunset': 1667262645, 'name': 'Chennai', 'cod': 200}
```

```
Temperature is : 298.14
```

```
Humidity is : 94
```

```
>>>
```