

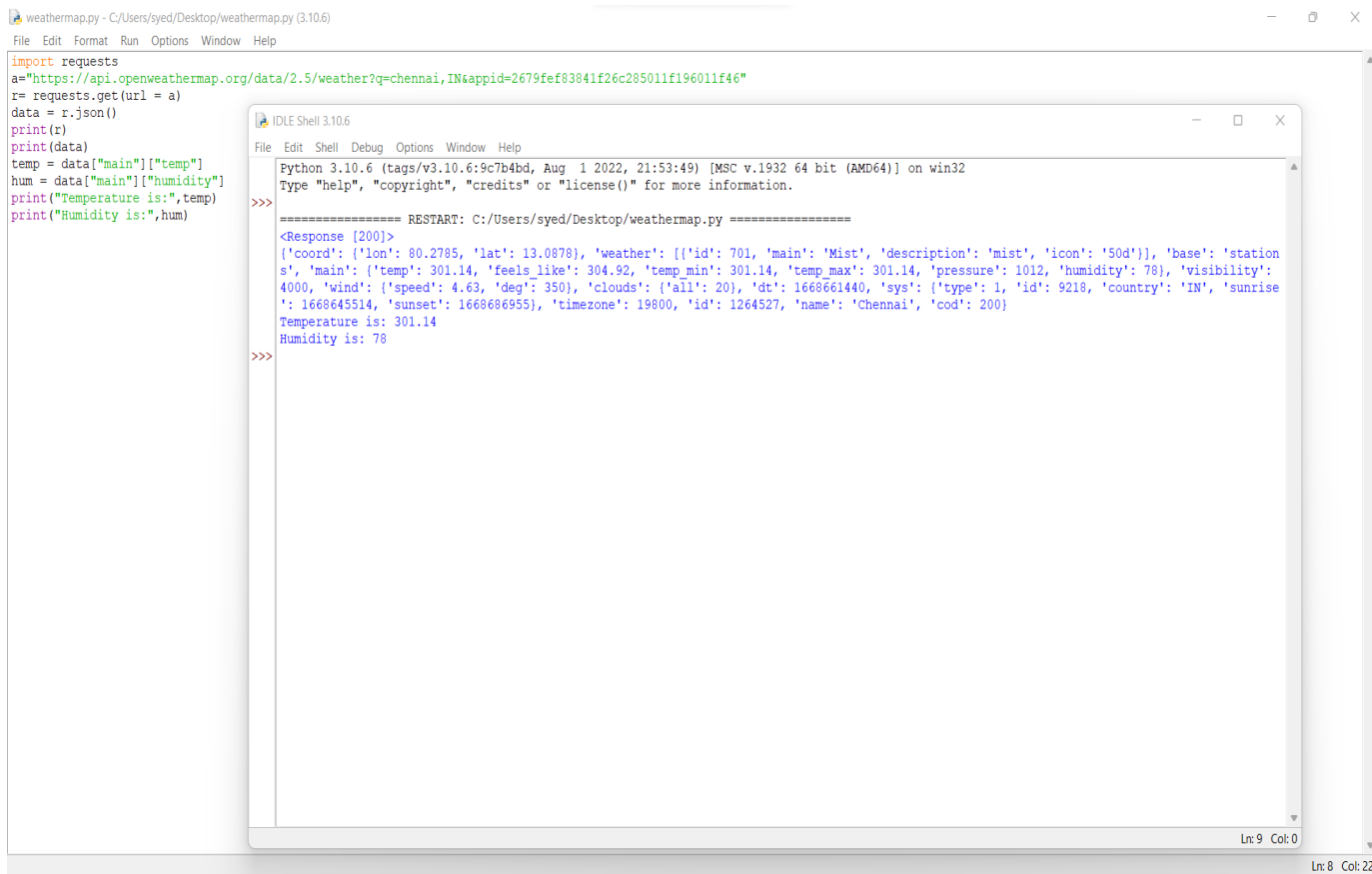
DEVELOP A PYTHON SCRIPT

Date	17-11-2022
Team ID	PNT2022TMID23996
Project Name	Smart Solutions for Railways
Marks	4 marks

Smart Solutions for Railways

Create a code snippet using python to;

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.



The image shows a Python script in a text editor and its execution output in a shell window. The script uses the 'requests' library to fetch weather data from the Open Weather Map API for Chennai. The output shows the raw JSON response and the extracted temperature and humidity values.

```
weathermap.py - C:/Users/syed/Desktop/weathermap.py (3.10.6)
File Edit Format Run Options Window Help

import requests
a="https://api.openweathermap.org/data/2.5/weather?q=chennai,IN&appid=2679fef83841f26c285011f196011f46"
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)
```

```
IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help

Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>
===== RESTART: C:/Users/syed/Desktop/weathermap.py =====
<Response [200]>
{'coord': {'lon': 80.2785, 'lat': 13.0878}, 'weather': [{'id': 701, 'main': 'Mist', 'description': 'mist', 'icon': '50d'}], 'base': 'station
s', 'main': {'temp': 301.14, 'feels_like': 304.92, 'temp_min': 301.14, 'temp_max': 301.14, 'pressure': 1012, 'humidity': 78}, 'visibility':
4000, 'wind': {'speed': 4.63, 'deg': 350}, 'clouds': {'all': 20}, 'dt': 1668661440, 'sys': {'type': 1, 'id': 9218, 'country': 'IN', 'sunrise
': 1668645514, 'sunset': 1668686955}, 'timezone': 19800, 'id': 1264527, 'name': 'Chennai', 'cod': 200}
Temperature is: 301.14
Humidity is: 78
>>>
```



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OpenWeather

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Different Weather?

Metric: °C, mm

Imperial: °F, mph

Nov 17, 10:43am
Chennai, IN

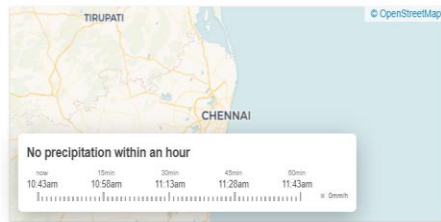
☼ 28°C

Feels like 32°C. Mist. Gentle Breeze

▼ 4.6m/s N ☉ 1012hPa

Humidity: 78% UV: 7

Dew point: 24°C Visibility: 4.0km



Hourly forecast

8-day forecast