Develop a Python script

Date	12 September 2022
Team ID	PNT2022TMIDI3469
Project Name	Project – IOT enabled Smart Farming Application System
Maximum Marks	4 Marks

Signs with smart connectivity for Better Agriculture

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

Find - OpenWeatherMap × +

openweathermap.org/find?q=Chennai

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

Weather in your city

Chennai   ❓ Search

Chennai, IN 🇮🇳 *broken clouds*

29°C temperature from 29 to 29 °C, wind 4.12 m/s. clouds 75 %, 1009 hpa

Geo coords [13.0878, 80.2785]

Search engine is very flexible. How it works:

- To make it more precise put the city's name, comma, 2-letter country code (ISO3166). You will get all proper cities in chosen country. The order is important - the first is city name then comma then country. Example - London, GB or New York, US.

29°C Cloudy   ENG IN   2:19 PM 11/3/2022

---

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

File Edit Format Run Options Window Help

```python
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)
```

Python 3.6.5 Shell

File Edit Shell Debug Options Window Help

```
<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'}], 'bas
e': 'stations', 'main': {'temp': 298.14, 'feels_like': 299.15, 'temp_min': 298.14, 'temp_ma
x': 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': 1
264527, 'name': 'Chennai', 'cod': 200}
Temperature is :  298.14
Humidity is :  94
>>>
```

Ln: 17 Col: 4

Ln: 10 Col: 26

Rain to stop   ENG IN   9:17 PM 11/1/2022