DEVELOP THE PYTHON SCRIPT
Develop a Python Script

Team ID : PNT2022TMID12069

Project Name - SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

Create a code snippet using python to

- **Extract weather data from OpenWeatherMap using APIs**
- **Send the extracted data to the cloud**
- **Receive data from the cloud and view it in the python compiler**

← → C   🔒 openweathermap.org/find?q=hyderaded

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Weather in your city

[hyderabad]   [❓ Search]

Hyderabad, IN 🇮🇳 *mist*
23.2°C temperature from 23.2 to 24.7 °C, wind 2.57 m/s. clouds 75 %, 1018 hpa
Geo coords [17.3753, 78.4744]

Hyderabad, PK 🇵🇰 *clear sky*
29.1°C temperature from 29.1 to 29.1 °C, wind 4.51 m/s. clouds 2 %, 1015 hpa
Geo coords [25.3924, 68.3737]

Hyderābād, IN 🇮🇳 *mist*
24.1°C temperature from 22.6 to 24.1 °C, wind 2.57 m/s. clouds 75 %, 1018 hpa
Geo coords [17.25, 78.5]

🔍 Type here to search   ✈ O 🖥 📊 📄 🌐 🔷 🌐 ✈ 📁   ☁ 28°C Cloudy ∧ ◁)) 🔋 📶 ENG   10:14 02-11-2022

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{"coord":{"lon":78.4744,"lat":17.3753},"weather":[{"id":701,"main":"Mist","description":"mist","icon":"50d"}],"base":"stations","main":
{"temp":301.38,"feels_like":303.58,"temp_min":301.38,"temp_max":301.88,"pressure":1017,"humidity":65},"visibility":5000,"wind":{"speed":4.12,"deg":80},"clouds":
{"all":75},"dt":1666333196,"sys":{"type":1,"id":9214,"country":"IN","sunrise":1666312830,"sunset":1666354845},"timezone":19800,"id":1269843,"name":"Hyderabad","cod":200}

{"coord":{"lon":"78.4744","lat":"17.3753"},"weather":[{"id":"701","main":"Mist","descripti
{"temp":301.38,"feels_like":303.58,"temp_min":301.38,"temp_max":301.88,"pressure":10
{"all":"75"},"dt":1666333196,"sys":{"type":1,"id":9214,"country":"IN","sunrise":166631

owm.py - D:/Python/Python310/owm.py (3.10.8)

File Edit Format Run Options Window Help

```
import requests
api_data="https://api.openweathermap.org/data/2.5/weather?q=Hyderabad,IN&appid=1
rec=requests.get(url=api_data)
data=rec.json()
print(data)
```

IDLE Shell 3.10.8

File Edit Shell Debug Options Window Help

```
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===================== RESTART: D:/Python/Python310/owm.py =====================
{'coord': {'lon': 78.4744, 'lat': 17.3753}, 'weather': [{'id': 721, 'main': 'Haze', 'description': 'haze', 'icon': '50d'
}], 'base': 'stations', 'main': {'temp': 301.38, 'feels_like': 303.07, 'temp_min': 301.38, 'temp_max': 301.88, 'pressure
': 1017, 'humidity': 61}, 'visibility': 5000, 'wind': {'speed': 3.6, 'deg': 90}, 'clouds': {'all': 40}, 'dt': 1666335428
, 'sys': {'type': 1, 'id': 9214, 'country': 'IN', 'sunrise': 1666312830, 'sunset': 1666354845}, 'timezone': 19800, 'id':
1269843, 'name': 'Hyderabad', 'cod': 200}
>>>
```

{"coord":{"lon":78.4744,"lat":17.3753},"weather":[{"id":701,"main":"Mist","description":"mist","icon":"50d"}],"base":"stations","main":
{"temp":301.38,"feels_like":303.58,"temp_min":301.38,"temp_max":301.88,"pressure":1017,"humidity":65},"visibility":5000,"wind":{"speed":4.12,"deg":80},"clouds":
{"all":75},"dt":1666333196,"sys":{"type":1,"id":9214,"country":"IN","sunrise":1666312830,"sunset":1666354845},"timezone":19800,"id":1269843,"name":"Hyderabad","cod":200}

Command Prompt - python

```
C:\Users\USER>python
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import requests
>>> api_data="https://api.openweathermap.org/data/2.5/weather?q=Hyderabad,IN&appid=121da254d7b328809bf6c422fd6f3623"
>>> rec=requests.get(url=api_data)
>>> data=rec.json()
>>> print(data)
{'coord': {'lon': 78.4744, 'lat': 17.3753}, 'weather': [{'id': 721, 'main': 'Haze', 'description': 'haze', 'icon': '50d'
}], 'base': 'stations', 'main': {'temp': 301.38, 'feels_like': 303.07, 'temp_min': 301.38, 'temp_max': 301.88, 'pressure
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, 'sys': {'type': 1, 'id': 9214, 'country': 'IN', 'sunrise': 1666312830, 'sunset': 1666354845}, 'timezone': 19800, 'id':
1269843, 'name': 'Hyderabad', 'cod': 200}
>>>
```