


Develop a python script

Team ID	PNT2022TMID06149
Project Name	Smart waste management system for metropolitan cities

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

 Weather in your city

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





Notice

Signed in successfully.

You have to verify your email to use OpenWeatherMap services. Please [click here](#) to get an email with the confirmation link.

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You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.

Key	Name	Status	Actions	Create key
a2531bf7e017f904e55f182b5612e2bc	Default	Active	  	<input type="text" value="API key name"/> 
58a159192ce4111a169d298b26d935be	karakudi1	Active	  	

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New document 1

texttree

```
1 [{"coord":{"lon":80.2785,"lat":13.0878},"weather":[{"id":200,"main":"Thunderstorm","description":"thunderstorm with light rain","icon":"11n"}, {"id":502,"main":"Rain","description":"heavy intensity 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":3000,"wind":{"speed":2.06,"deg":50},"rain":{"1h":8.65},"clouds":{"all":75},"dt":1667497809,"sys":{"type":1,"id":9218,"country":"IN","sunrise":1667435587,"sunset":1667477501},"timezone":19800,"id":1264527,"name":"Chennai","cod":200}}]}
```

Line: 1 Column: 589

New document 2

texttree

```
> {  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: 1011    humidity: 94  }  visibility: 3000  wind: {    speed: 1.54    deg: 300  }  rain: {    1h: 0.14  }  clouds: {    all: 75  }  dt: 1667487173  sys: {    type: 1    id: 9218    country: IN    sunrise: 1667435587  }
```

Copy

Transform

Differences

☐ Compare

openweather.py - C:/Users/SUGAPRIYA A/AppData/Local/Programs/Python/Python310/openweather.py (3.10.7)

File Edit Format Run Options Window Help

```
import requests
a="https://api.openweathermap.org/data/2.5/weather?q=Chennai,IN&appid=a2531bf7e017f904e55f182b5612e2bc"
r=requests.get(url=a)
print(r)
data=r.json()
tem=data['main']['temp']
print("temperature is",tem)
hum=data['main']['humidity']
print("humidity is",hum)
```

```
IDLE Shell 3.10.7
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/SUGAPRIYA A/AppData/Local/Programs/Python/Python310/openweather.py
<Response [200]>
>>>
= RESTART: C:/Users/SUGAPRIYA A/AppData/Local/Programs/Python/Python310/openweather.py
<Response [200]>
{'coord': {'lon': 80.2785, 'lat': 13.0878}, 'weather': [{'id': 200, 'main': 'Thunderstorm', 'description': 'thunderstorm with light rain', 'icon': '11n'}, {'id': 501, 'main': 'Rain', 'description': 'moderate 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': 3000, 'wind': {'speed': 2.06, 'deg': 50}, 'rain': {'1h': 1.5}, 'clouds': {'all': 75}, 'dt': 1667498434, 'sys': {'type': 1, 'id': 9218, 'country': 'IN', 'sunrise': 1667435587, 'sunset': 1667477501}, 'timezone': 19800, 'id': 1264527, 'name': 'Chennai', 'cod': 200}
>>>
= RESTART: C:/Users/SUGAPRIYA A/AppData/Local/Programs/Python/Python310/openweather.py
<Response [200]>
298.14
>>>
= RESTART: C:/Users/SUGAPRIYA A/AppData/Local/Programs/Python/Python310/openweather.py
<Response [200]>
```

```
{
  "coord": {
    "lon": 80.2785,
    "lat": 13.0878
  },
  "weather": [
    {
      "id": 200,
      "main": "Thunderstorm",
      "description": "thunderstorm with light rain",
      "icon": "11n"
    },
    {
      "id": 501,
      "main": "Rain",
      "description": "heavy intensity 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": 3000,
    "wind": {
      "speed": 2.06,
      "deg": 50
    },
    "rain": {
      "1h": 1.5
    },
    "clouds": {
      "all": 75
    },
    "dt": 1667498434,
    "sys": {
      "type": 1,
      "id": 9218,
      "country": "IN",
      "sunrise": 1667435587,
      "sunset": 1667477501,
      "timezone": 19800,
      "id": 1264527,
      "name": "Chennai",
      "cod": 200
    }
  }
}
```