

# Develop the Python Script

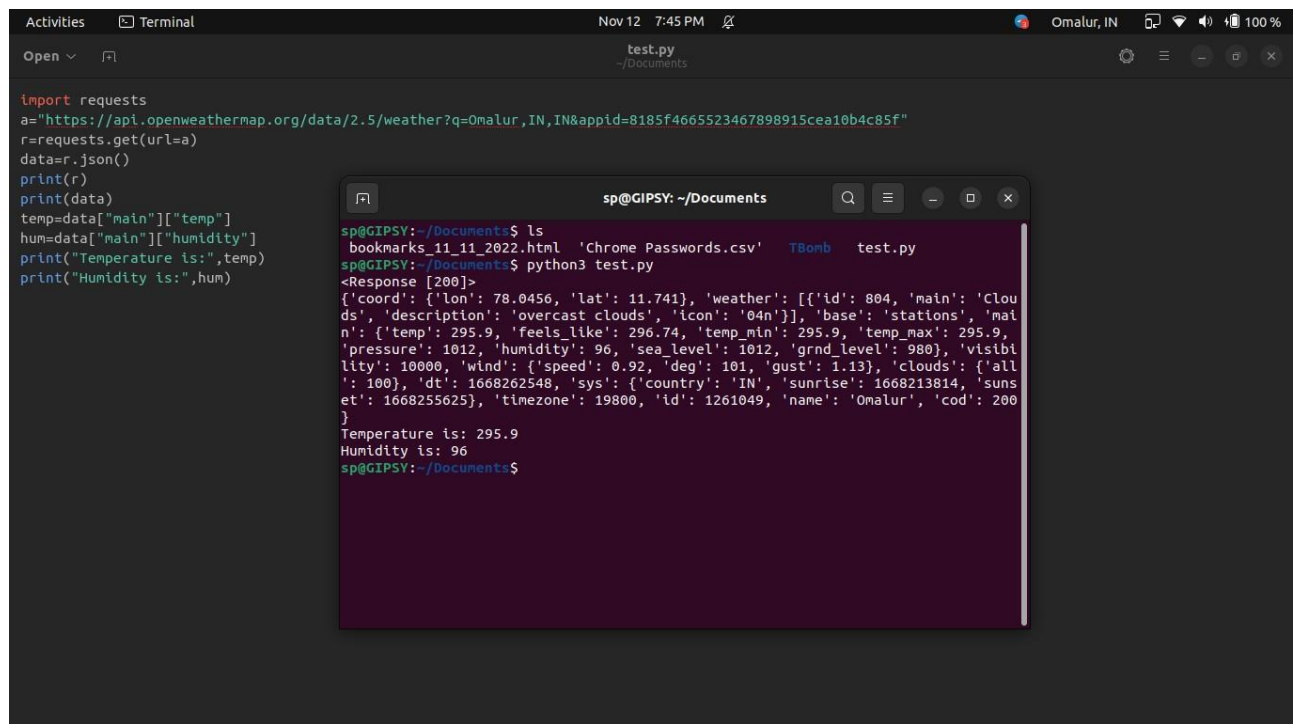
(Develop a Python script)

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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



The screenshot shows a terminal window with a Python script and its output. The script uses the 'requests' library to fetch weather data from the OpenWeatherMap API for Omalur, India. The output shows the temperature is 295.9 and the humidity is 96.

```
import requests
a="https://api.openweathermap.org/data/2.5/weather?q=Omalur,IN,IN&appid=8185f4665523467898915cea10b4c85f"
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)
```

```
sp@GIPSY: ~/Documents
ls
bookmarks_11_11_2022.html  'Chrome Passwords.csv'  TBomb  test.py
sp@GIPSY: ~/Documents$ python3 test.py
<Response [200]>
{'coord': {'lon': 78.0456, 'lat': 11.741}, 'weather': [{'id': 804, 'main': 'Clou
ds', 'description': 'overcast clouds', 'icon': '04n'}], 'base': 'stations', 'mai
n': {'temp': 295.9, 'feels_like': 296.74, 'temp_min': 295.9, 'temp_max': 295.9,
'pressure': 1012, 'humidity': 96, 'sea_level': 1012, 'grnd_level': 980}, 'visibi
lity': 10000, 'wind': {'speed': 0.92, 'deg': 101, 'gust': 1.13}, 'clouds': {'all
': 100}, 'dt': 1668262548, 'sys': {'country': 'IN', 'sunrise': 1668213814, 'suns
et': 1668255625}, 'timezone': 19800, 'id': 1261049, 'name': 'Omalur', 'cod': 200
}
Temperature is: 295.9
Humidity is: 96
sp@GIPSY: ~/Documents$
```

Activities Google Chrome Nov 12 7:28 PM <https://api.op...> 100 %

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api.openweathermap.org/data/2.5/weather?q=Salem,%20IN&appid=a79601c0cdc478a74c835c8517859fbf

Gmail Codeit Spotify-Web... IBM Watson lo... DHIRAJLAL G... SethupathIN... DIBM-Project... Other bookmarks

```
{
  "coord": {
    "lon": 78.1667,
    "lat": 11.65
  },
  "weather": [
    {
      "id": 804,
      "main": "Clouds",
      "description": "overcast clouds",
      "icon": "04n"
    }
  ],
  "base": "stations",
  "main": {
    "temp": 296.13,
    "feels_like": 296.96,
    "temp_min": 296.13,
    "temp_max": 296.13,
    "pressure": 1012,
    "humidity": 95,
    "sea_level": 1012,
    "grnd_level": 979,
    "visibility": 10000,
    "wind": {
      "speed": 1.15,
      "deg": 89,
      "gust": 1.5
    },
    "clouds": {
      "all": 100
    },
    "dt": 1668261480,
    "sys": {
      "country": "IN",
      "sunrise": 1668213777,
      "sunset": 1668255603,
      "timezone": 19800,
      "id": 1257629,
      "name": "Salem",
      "cod": 200
    }
  }
}
```

