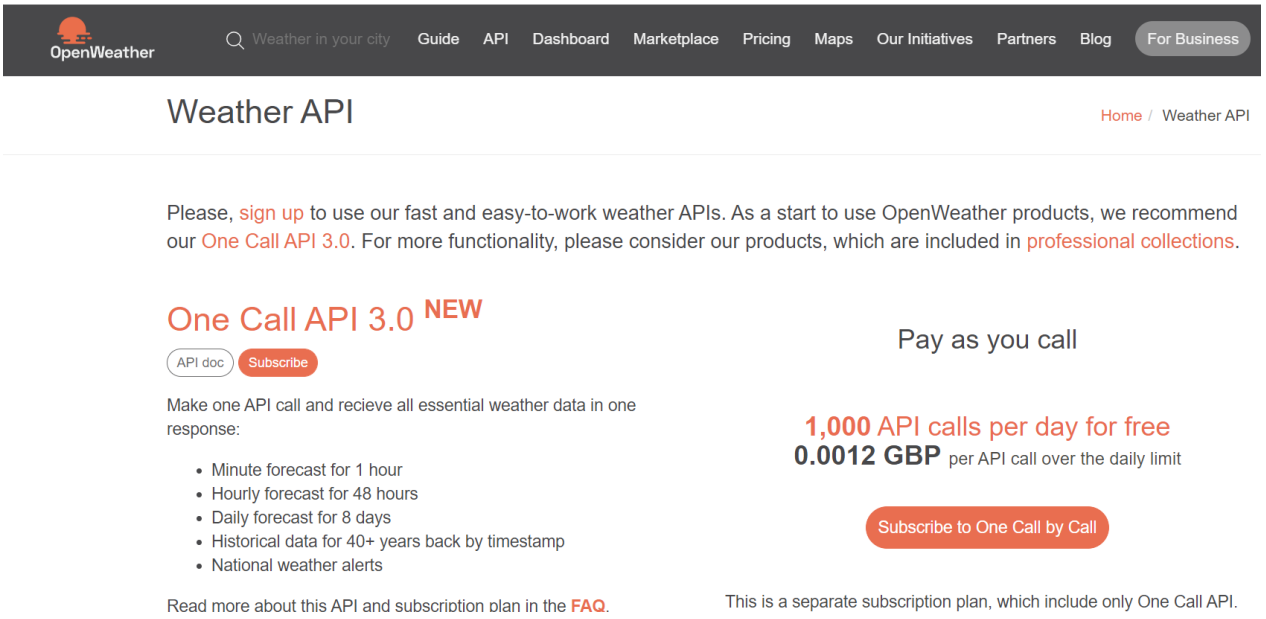
Develop a Python script

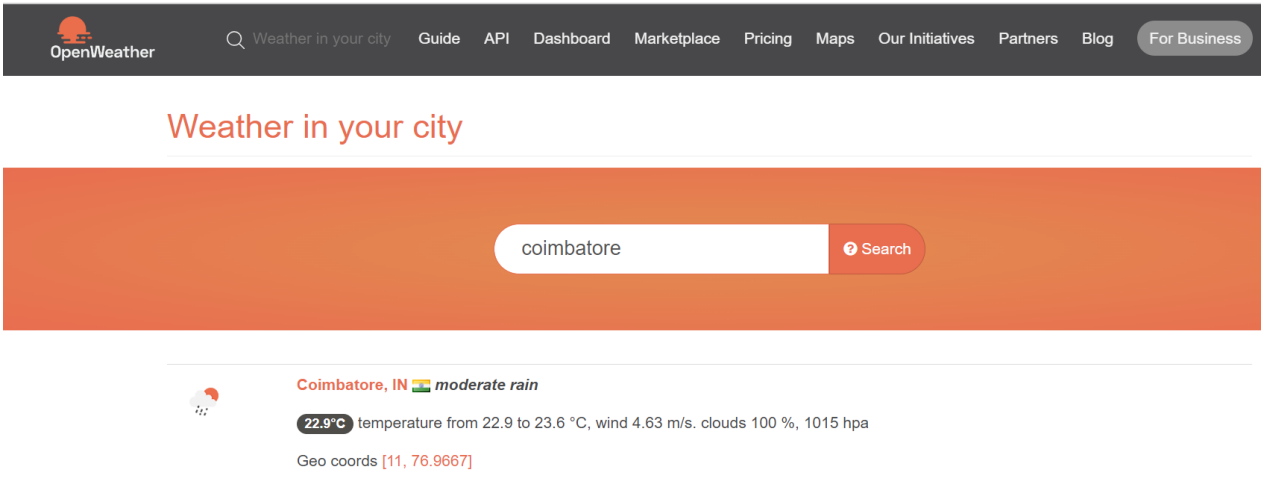
Date	31 October 2022
Team ID	PNT2022TMID52873
Project Name	Project - Signs with smart connectivity for Better road safety

Signs with smart connectivity for Better road safety

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





test 1.py - C:\Users\viswa\OneDrive\Documents\ibm\py\weather\test 1.py (3.10.7)

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```
import requests, json
BASE_URL = "https://api.openweathermap.org/data/2.5/weather?"
CITY = "Hyderabad"
API_KEY = "46faa4ab6fede1d9ae549b90d91253f2"
# upadting the URL
URL = BASE_URL + "q=" + CITY + "&appid=" + API_KEY
# HTTP request
response = requests.get(URL)
# checking the status code of the request
if response.status_code == 200:
   # getting data in the json format
   data = response.json()
   # getting the main dict block
   main = data['main']
   # getting temperature
   temperature = main['temp']
   # getting the humidity
   humidity = main['humidity']
   # getting the pressure
   pressure = main['pressure']
   # weather report
   report = data['weather']
   print(f"{CITY:-^30}")
   print(f"Temperature: {temperature}")
   print(f"Humidity: {humidity}")
   print(f"Pressure: {pressure}")
   print(f"Weather Report: {report[0]['description']}")
else:
   # showing the error message
   print("Error in the HTTP request")
```

IDLE Shell 3.10.7

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```
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\viswa\OneDrive\Documents\ibm\py\weather\test 1.py =====
----------coimbatore----------
Temperature: 296.03
Humidity: 94
Pressure: 1015
Weather Report: moderate rain
>>>
```