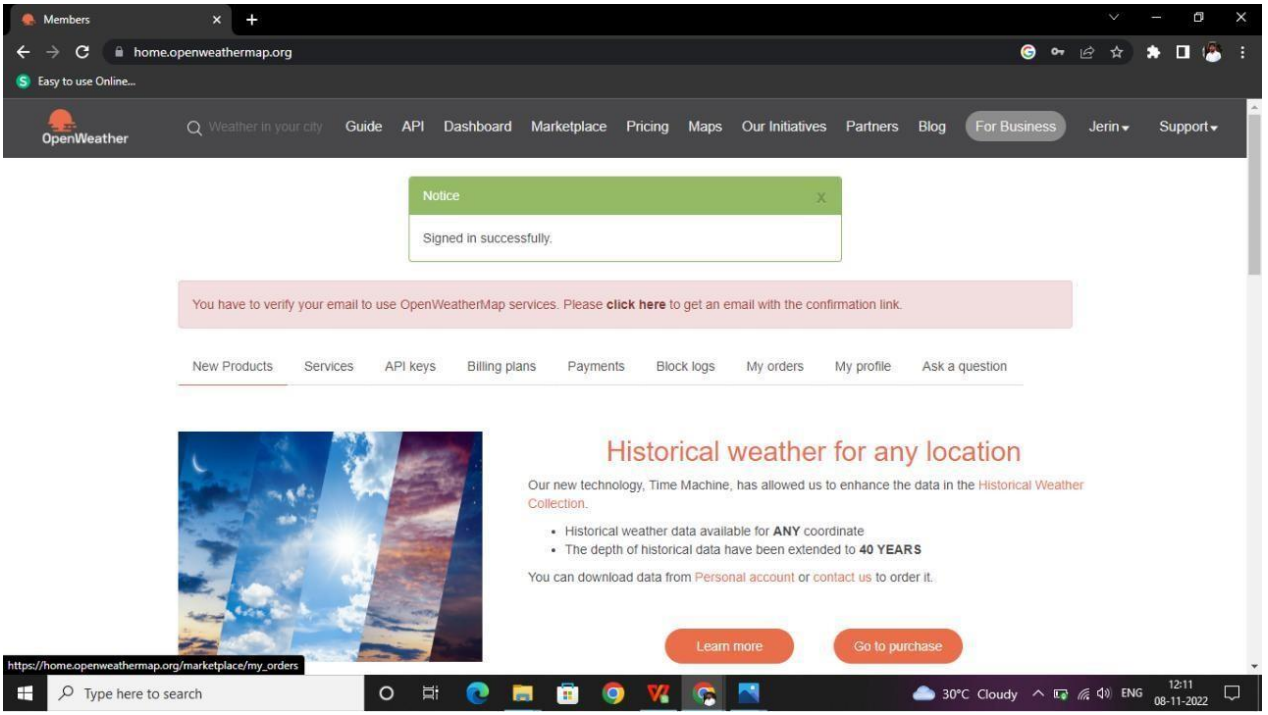
Develop a Python script

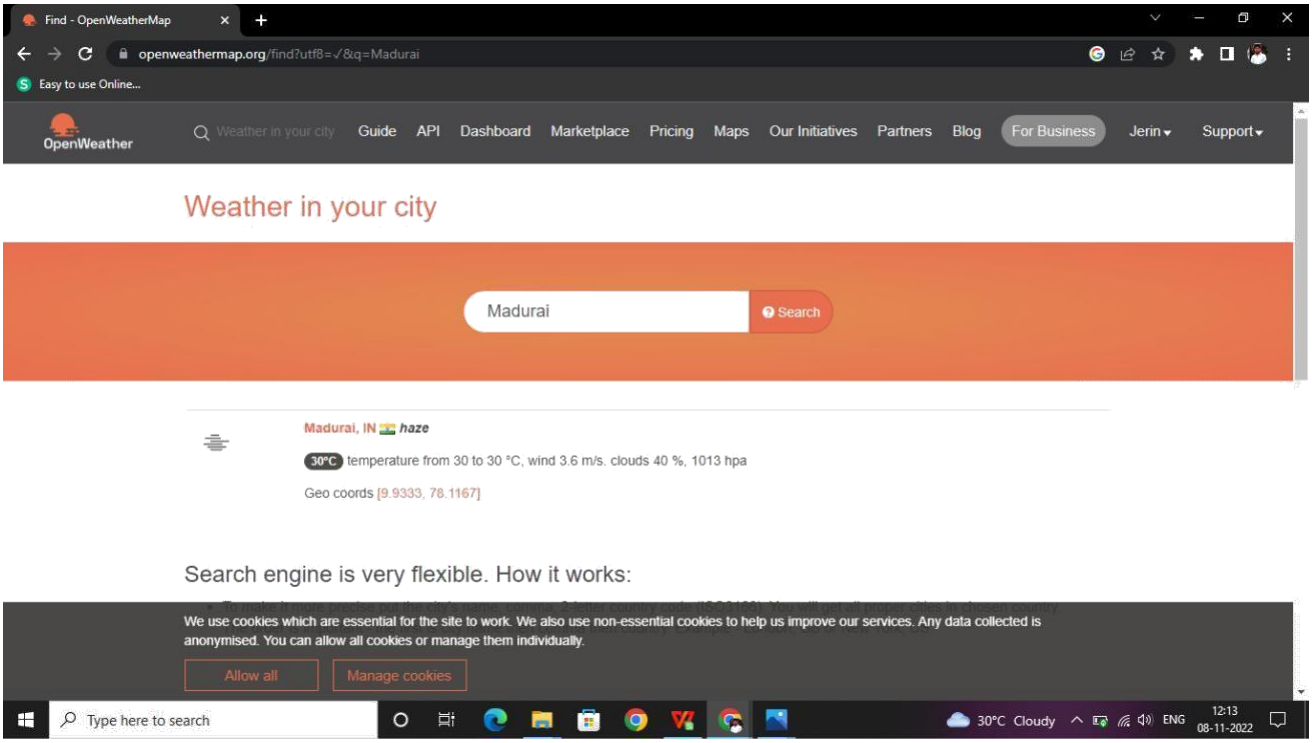
Team ID	PNT2022TMID54378
Project Name	SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITIAN CITIES
Maximum Marks	4 Marks

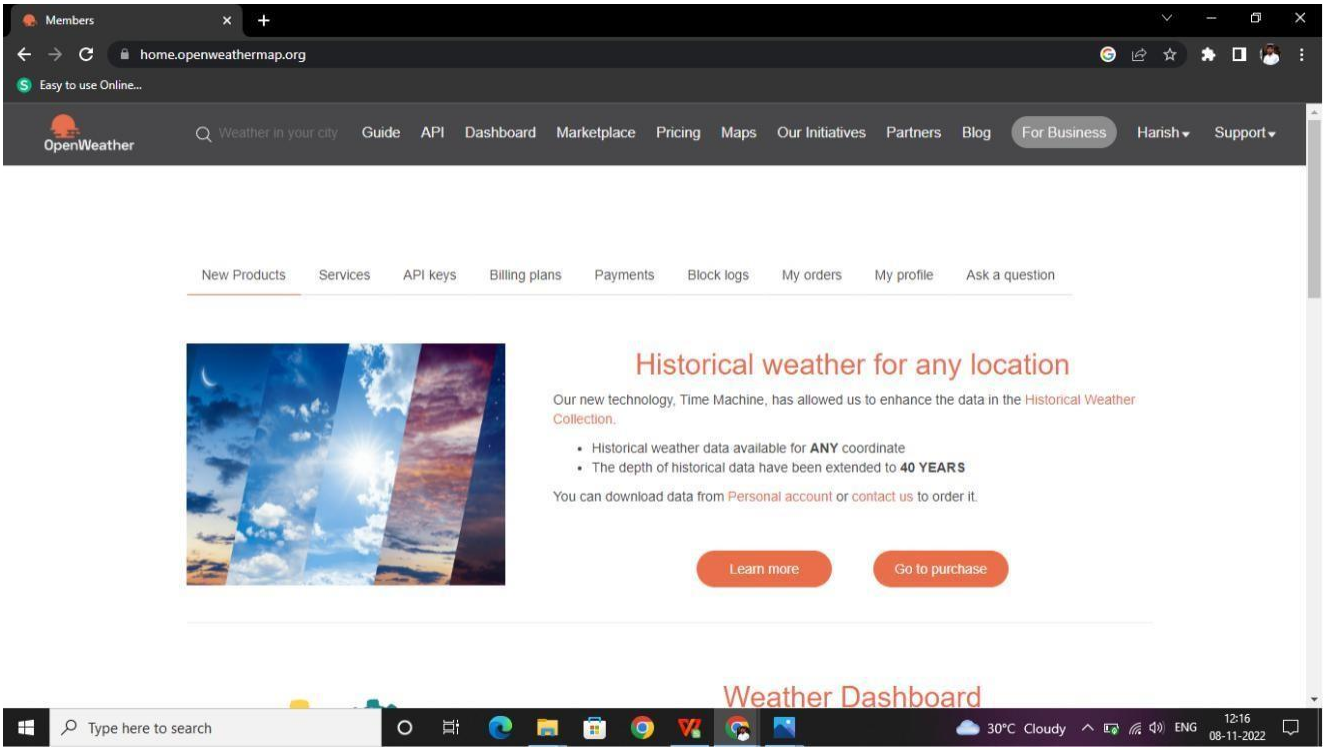
SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITIAN CITIES

Create a code snippet using python to

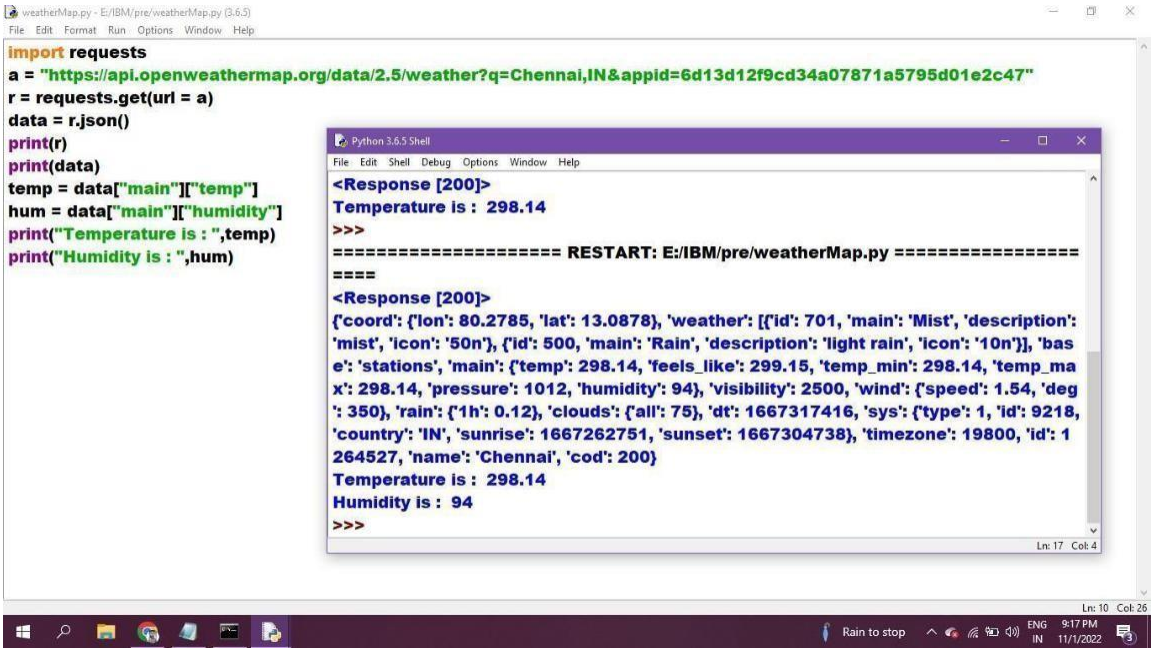
1. Extract weather data from OpenWeatherMap using APIs
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it in the python compiler




Find - OpenWeatherMap
openweathermap.org/find?utf8=✓&q=Madurai
Easy to use Online...
OpenWeather
Weather in your city
Guide
API
Dashboard
Marketplace
Pricing
Maps
Our Initiatives
Partners
Blog
For Business
Jerin
Support
Weather in your city
Madurai
Search
Madurai, IN haze
30°C temperature from 30 to 30 °C, wind 3.6 m/s. clouds 40 %, 1013 hpa
Geo coords [9.9333, 78.1167]
Search engine is very flexible. How it works:
We use cookies which are essential for the site to work. We also use non-essential cookies to help us improve our services. Any data collected is anonymised. You can allow all cookies or manage them individually.
Allow all
Manage cookies
Type here to search
30°C Cloudy
ENG
12:13
08-11-2022


Members
home.openweathermap.org
Easy to use Online...
OpenWeather
Weather in your city
Guide
API
Dashboard
Marketplace
Pricing
Maps
Our Initiatives
Partners
Blog
For Business
Harish
Support
New Products
Services
API keys
Billing plans
Payments
Block logs
My orders
My profile
Ask a question
Historical weather for any location
Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection.
Historical weather data available for ANY coordinate
The depth of historical data have been extended to 40 YEARS
You can download data from Personal account or contact us to order it.
Learn more
Go to purchase
Weather Dashboard
Type here to search
30°C Cloudy
ENG
12:16
08-11-2022

OUTPUT:


weatherMap.py - E:/IBM/pre/weatherMap.py (3.6.5)
File Edit Format Run Options Window Help
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'}], 'base': 'stations', 'main': {'temp': 298.14, 'feels_like': 299.15, 'temp_min': 298.14, 'temp_max': 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': 1264527, '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