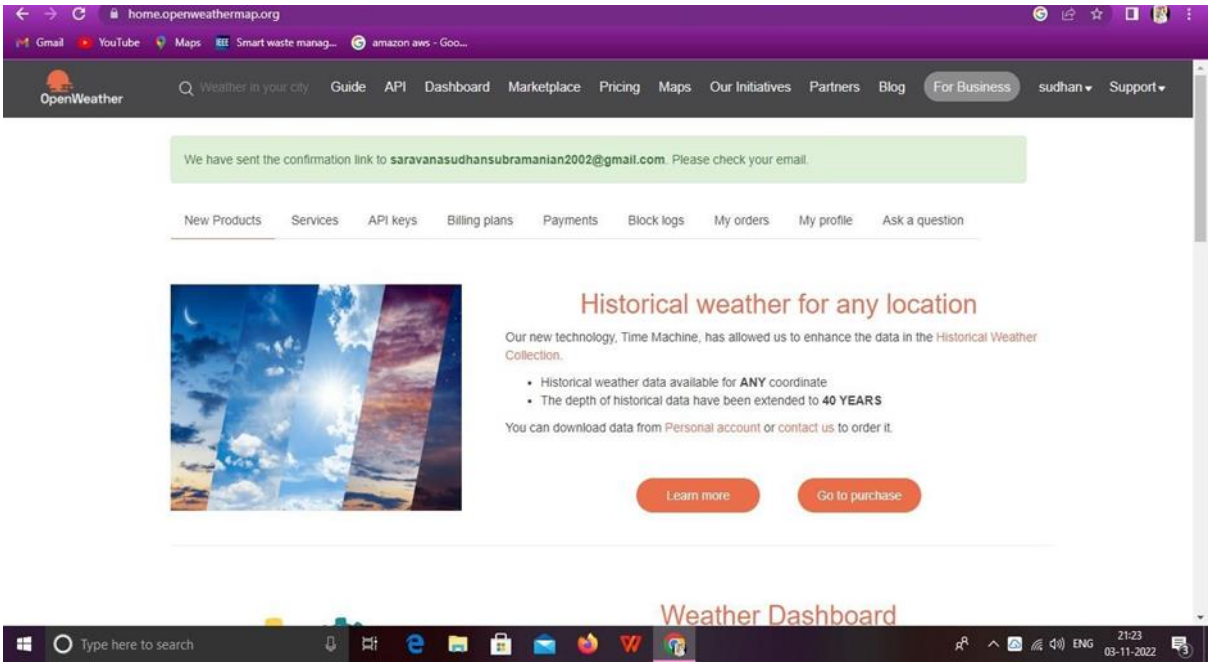
Develop a Python script

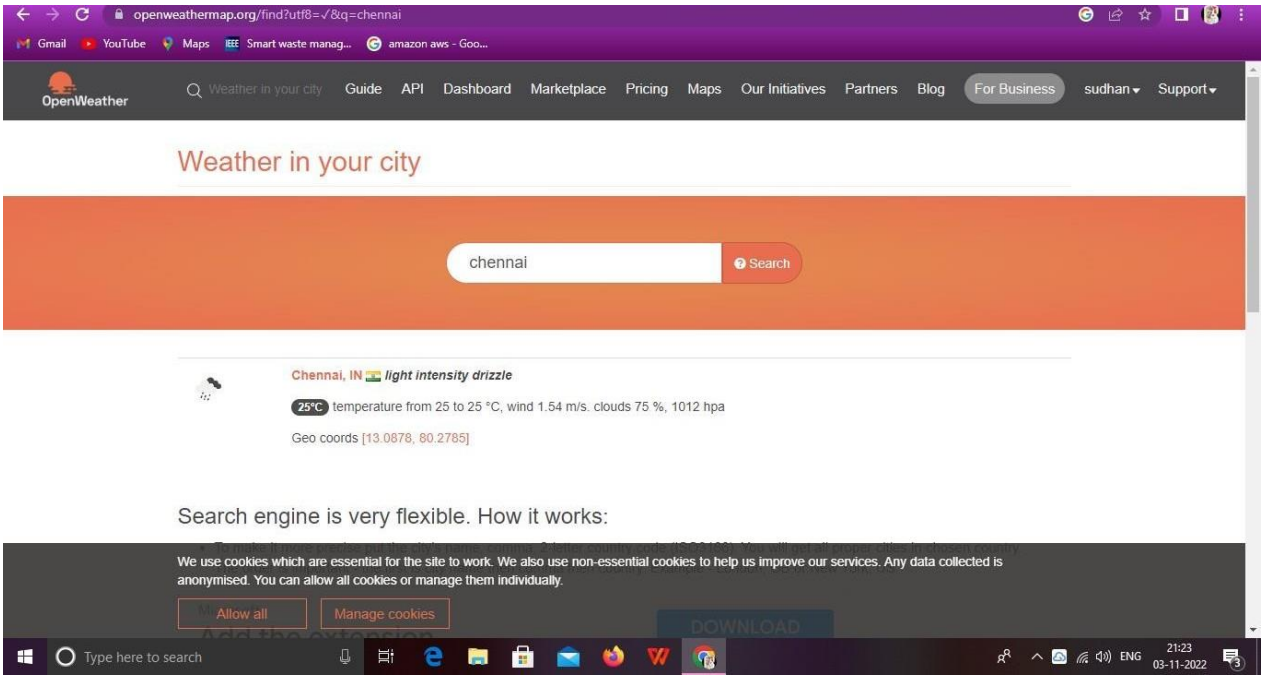
Date	12 November 2022
Team ID	PNT2022TMID05343
Project Name	SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITIAN CITIES
Maximum Marks	4 Marks

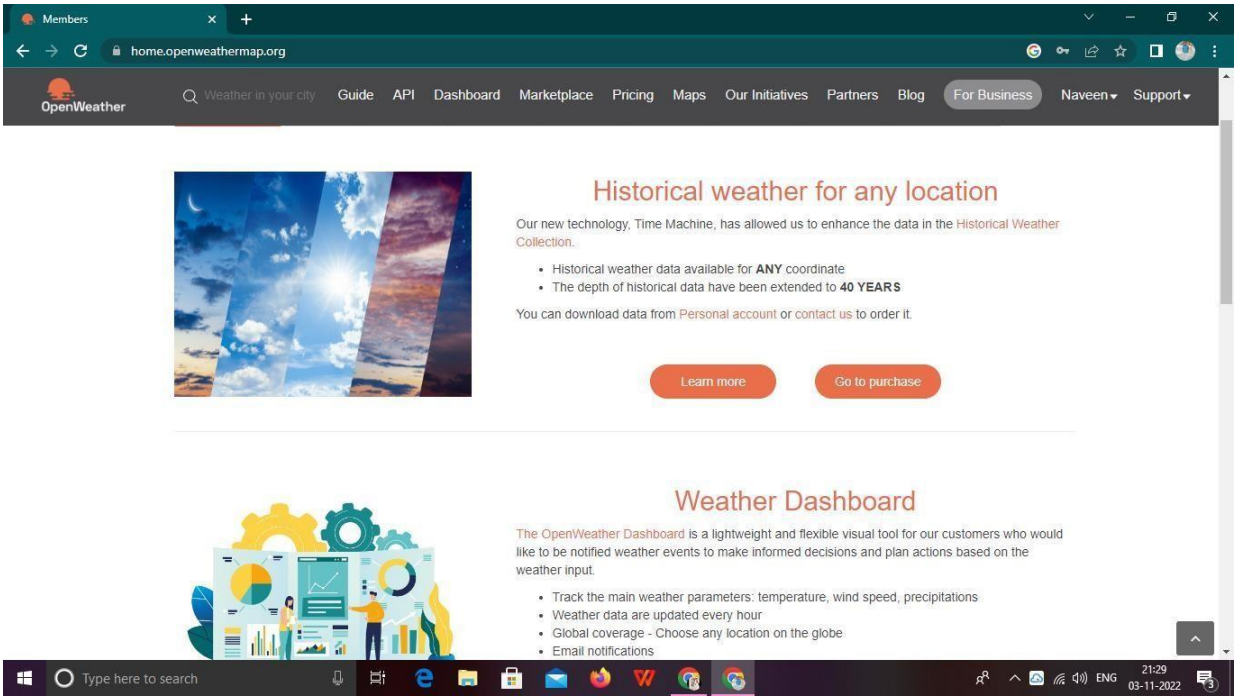
SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITIAN CITIES

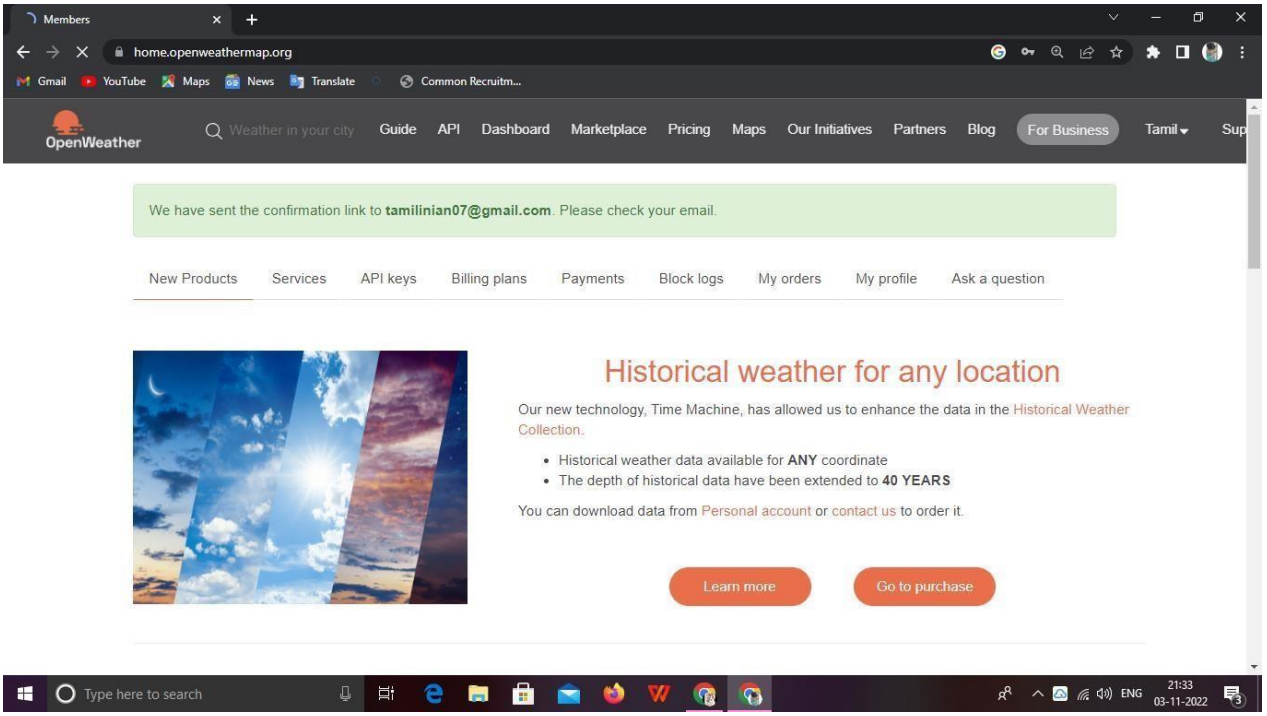
Create a code snippet using python to

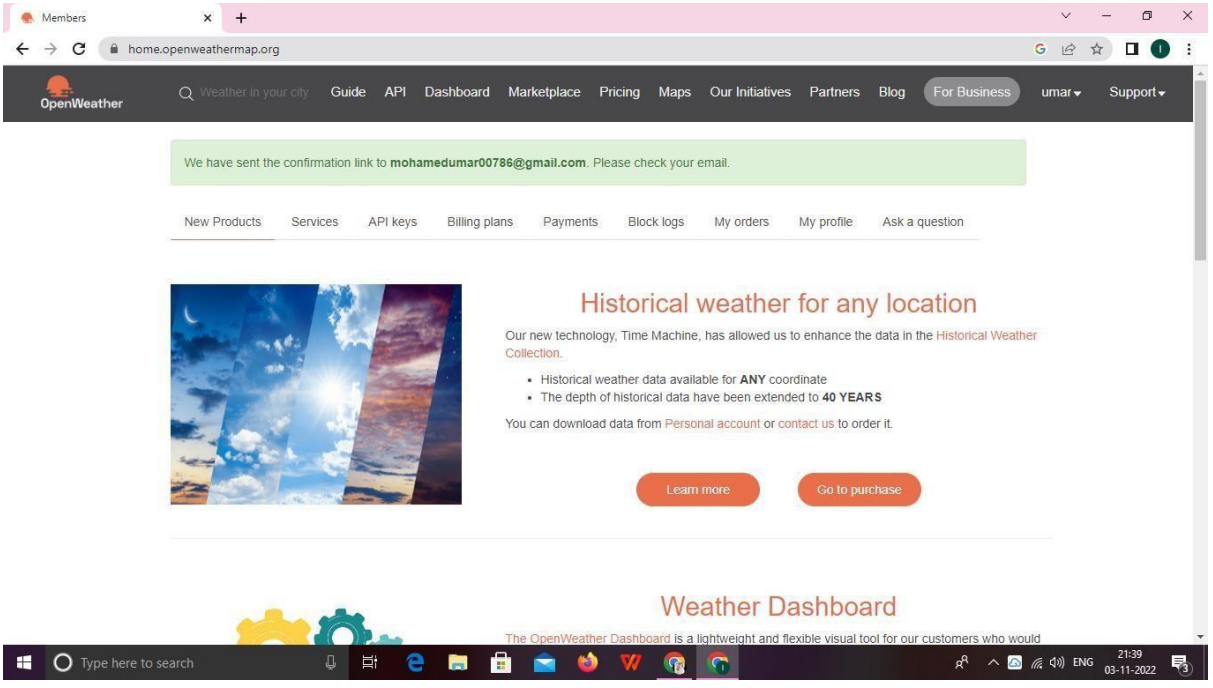
1. Extract weather data from OpenWeatherMap using APIs
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it in the python compiler



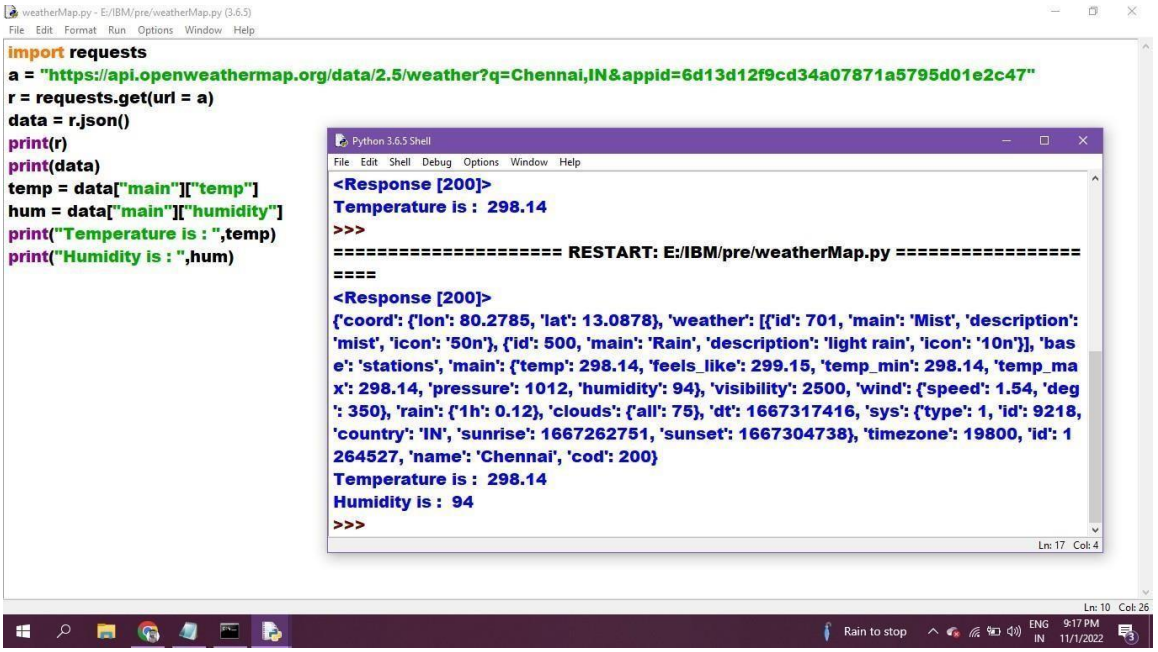

openweathermap.org/find?utf8=✓&q=chennai
Gmail
YouTube
Maps
Smart waste manag...
amazon aws - Goo...
OpenWeather
Weather in your city
Guide
API
Dashboard
Marketplace
Pricing
Maps
Our Initiatives
Partners
Blog
For Business
sudhan
Support
Weather in your city
chennai
Search
Chennai, IN light intensity drizzle
25°C temperature from 25 to 25 °C, wind 1.54 m/s. clouds 75 %, 1012 hpa
Geo coords [13.0878, 80.2785]
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
ENG
21:23
03-11-2022


Members
home.openweathermap.org
OpenWeather
Weather in your city
Guide
API
Dashboard
Marketplace
Pricing
Maps
Our Initiatives
Partners
Blog
For Business
Naveen
Support
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
The OpenWeather Dashboard is a lightweight and flexible visual tool for our customers who would like to be notified weather events to make informed decisions and plan actions based on the weather input.
Track the main weather parameters: temperature, wind speed, precipitations
Weather data are updated every hour
Global coverage - Choose any location on the globe
Email notifications
Type here to search
ENG
21:29
03-11-2022


Members
home.openweathermap.org
Gmail
YouTube
Maps
News
Translate
Common Recruitm...
OpenWeather
Weather in your city
Guide
API
Dashboard
Marketplace
Pricing
Maps
Our Initiatives
Partners
Blog
For Business
Tamil
We have sent the confirmation link to tamilinian07@gmail.com. Please check your email.
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
Type here to search
ENG
21:33
03-11-2022


Members
home.openweathermap.org
OpenWeather
Weather in your city
Guide
API
Dashboard
Marketplace
Pricing
Maps
Our Initiatives
Partners
Blog
For Business
umar
Support
We have sent the confirmation link to mohamedumar00786@gmail.com. Please check your email.
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
The OpenWeather Dashboard is a lightweight and flexible visual tool for our customers who would
Type here to search
ENG
21:39
03-11-2022

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