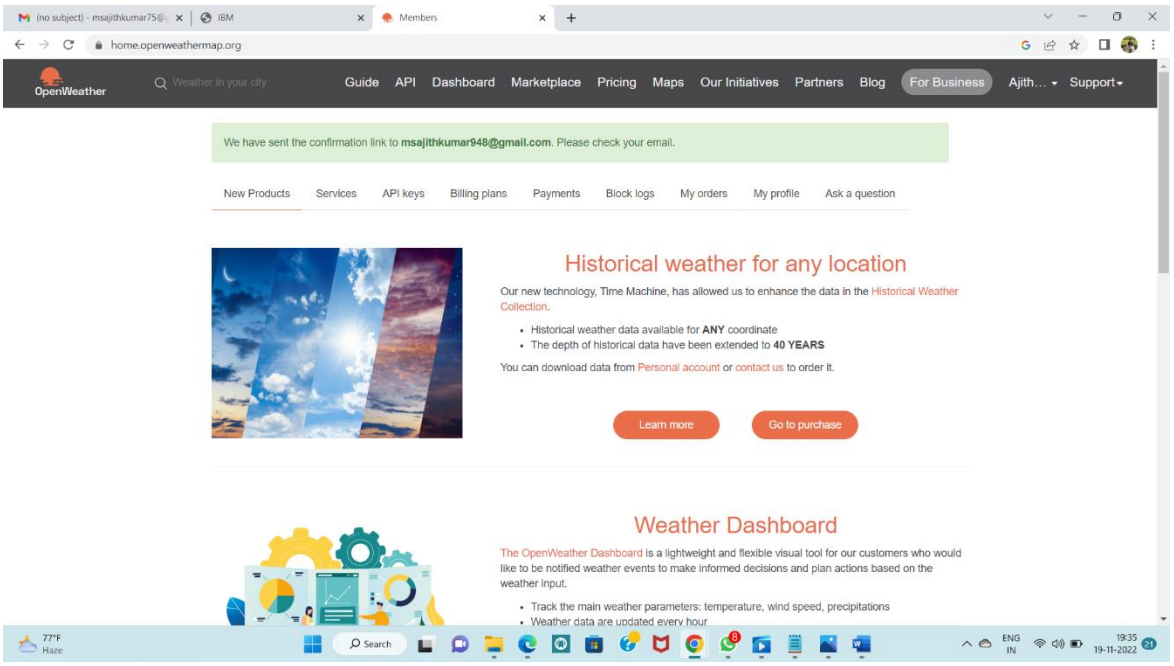
Develop the Python Script

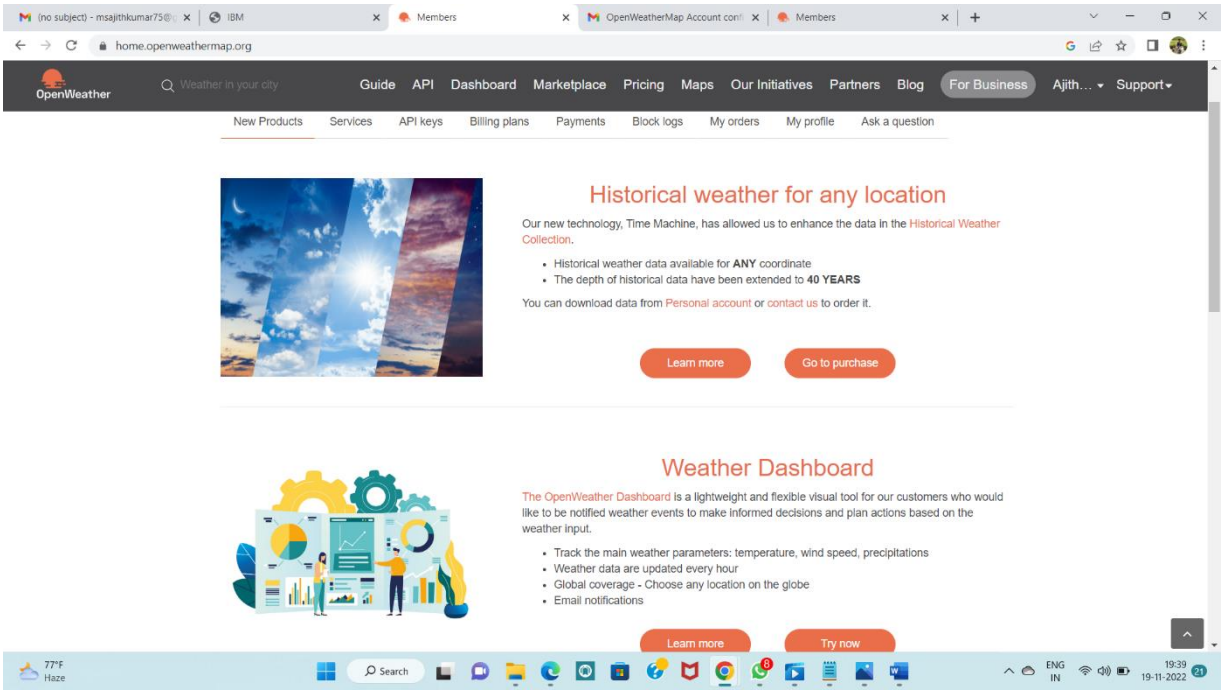
(Develop a Python script)

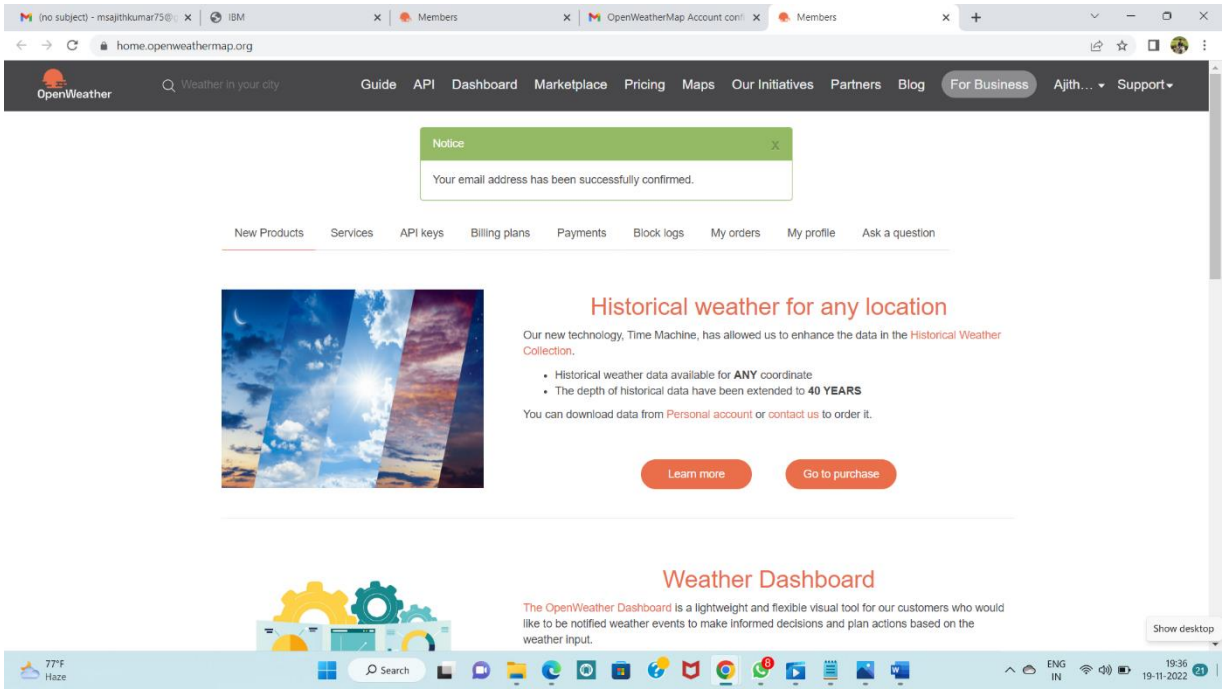
Date	04 November 2022
Team ID	PNT2022TMID16771
Project Name	Industry-Specific Intelligent Fire Management System
Maximum Marks	4 Marks

Create a code snippet using python to

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




home.openweathermap.org
OpenWeather
Weather in your city
Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business Ajith... 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
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
Learn more
Try now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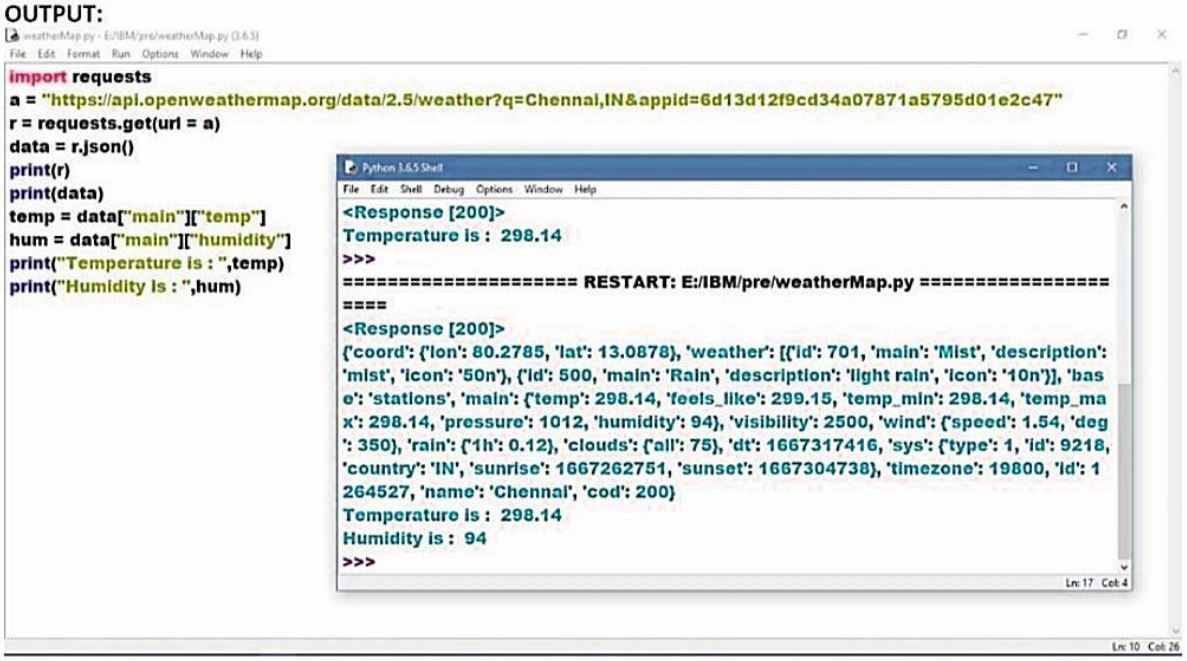
Show desktop

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)
Ln: 10 Col: 26
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