Develop the Python Script

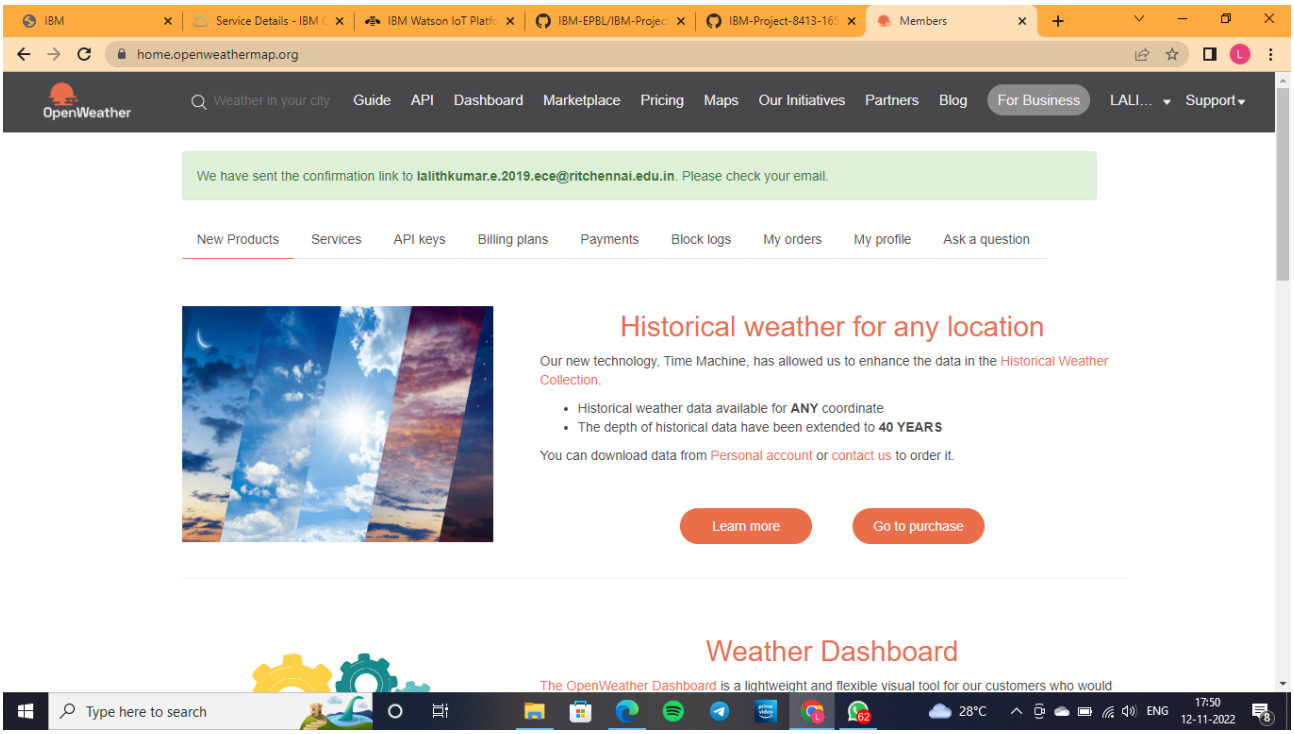
(Develop a Python script)

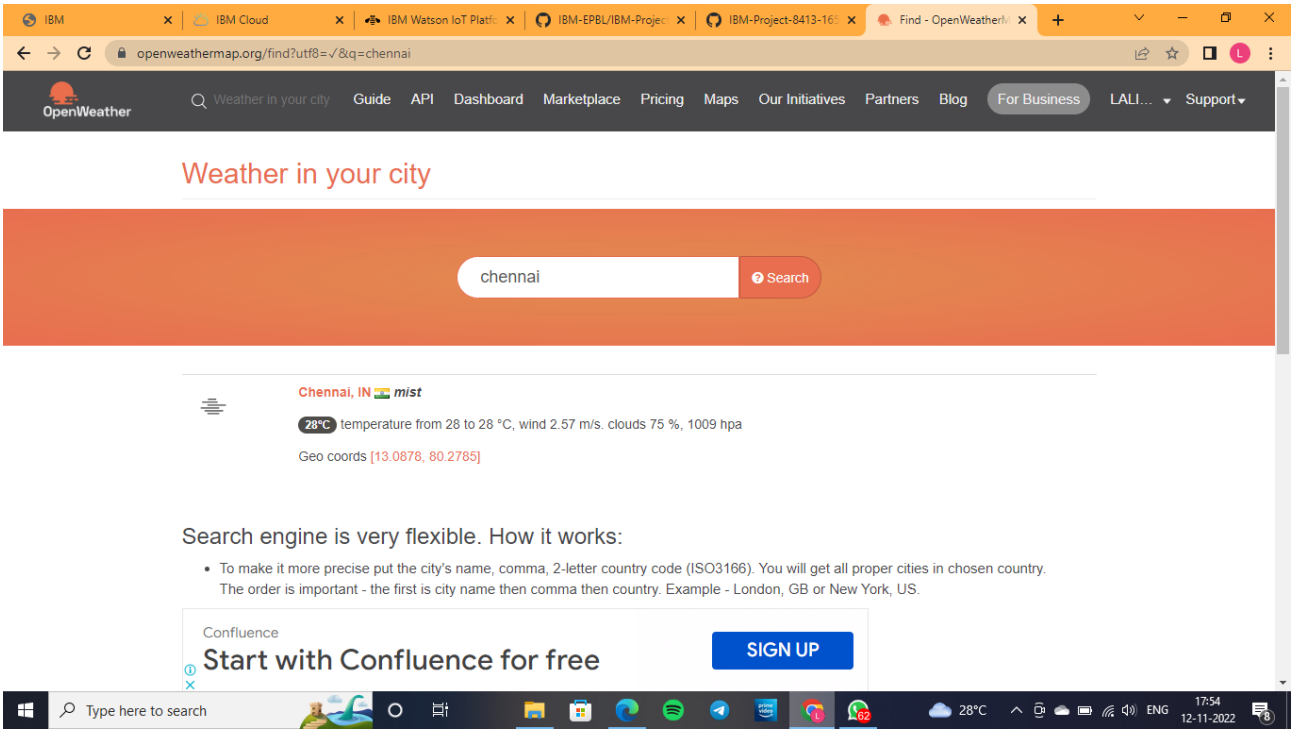
Date	12 November 2022
Team ID	PNT2022TMID26511
Project Name	Industry-specific intelligent fire management system
Maximum Marks	4 Marks

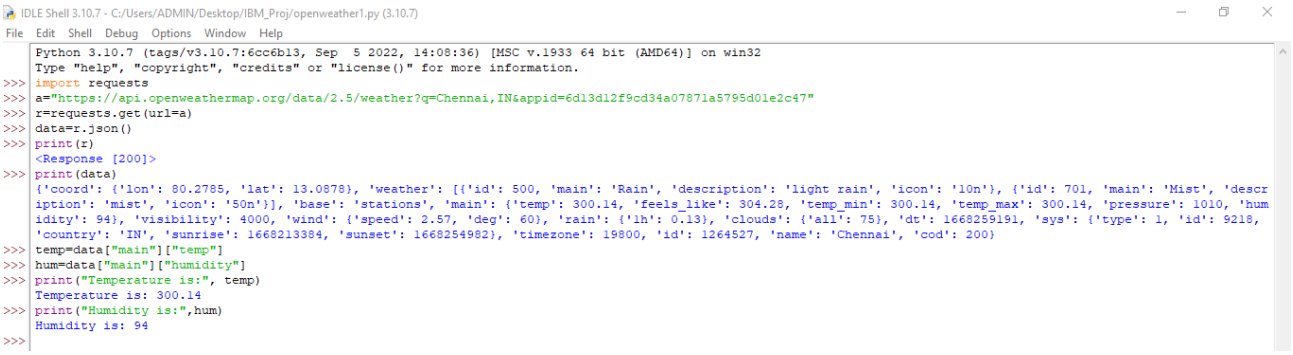
Industry-specific intelligent fire management system

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




openweathermap.org/find?utf8=✓&q=chennai
OpenWeather
Weather in your city
Guide
API
Dashboard
Marketplace
Pricing
Maps
Our Initiatives
Partners
Blog
For Business
Support
Weather in your city
chennai
Search
Chennai, IN mist
28°C temperature from 28 to 28 °C, wind 2.57 m/s. clouds 75 %, 1009 hpa
Geo coords [13.0878, 80.2785]
Search engine is very flexible. How it works:
To make it more precise put the city's name, comma, 2-letter country code (ISO3166). You will get all proper cities in chosen country. The order is important - the first is city name then comma then country. Example - London, GB or New York, US.
Confluence
Start with Confluence for free
SIGN UP
Type here to search
28°C
ENG
17:54
12-11-2022


IDLE Shell 3.10.7 - C:/Users/ADMIN/Desktop/IBM_Proj/openweather1.py (3.10.7)
File Edit Shell Debug Options Window Help
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.
>>> 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)
<Response [200]>
>>> print(data)
{'coord': {'lon': 80.2785, 'lat': 13.0878}, 'weather': [{'id': 500, 'main': 'Rain', 'description': 'light rain', 'icon': '10n'}, {'id': 701, 'main': 'Mist', 'description': 'mist', 'icon': '50n'}], 'base': 'stations', 'main': {'temp': 300.14, 'feels_like': 304.28, 'temp_min': 300.14, 'temp_max': 300.14, 'pressure': 1010, 'humidity': 94}, 'visibility': 4000, 'wind': {'speed': 2.57, 'deg': 60}, 'rain': {'1h': 0.13}, 'clouds': {'all': 75}, 'dt': 1668259191, 'sys': {'type': 1, 'id': 9218, 'country': 'IN', 'sunrise': 1668213384, 'sunset': 1668254982}, 'timezone': 19800, 'id': 1264527, 'name': 'Chennai', 'cod': 200}
>>> temp=data["main"]["temp"]
>>> hum=data["main"]["humidity"]
>>> print("Temperature is:", temp)
Temperature is: 300.14
>>> print("Humidity is:",hum)
Humidity is: 94
>>>