

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

The screenshot shows a web browser with multiple tabs open, including IBM, Service Details, IBM Watson IoT Platform, and IBM-EPBL/IBM-Project. The active tab is 'home.openweathermap.org'. The website header includes the OpenWeather logo and navigation links like Weather in your city, Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, LALI..., and Support. A green confirmation message states: 'We have sent the confirmation link to lalithkumar.e.2019.ece@ritchennai.edu.in. Please check your email.' Below this is a navigation bar with links: New Products, Services, API keys, Billing plans, Payments, Block logs, My orders, My profile, and Ask a question. The main content area features a banner for 'Historical weather for any location' with a background image of a sunset. The text describes the 'Time Machine' technology and lists features: historical weather data for any coordinate and data depth extended to 40 years. It also mentions that data can be downloaded from a personal account or by contacting them. Two buttons, 'Learn more' and 'Go to purchase', are visible. At the bottom, there is a 'Weather Dashboard' section with a description: 'The OpenWeather Dashboard is a lightweight and flexible visual tool for our customers who would'.

IBM Cloud IBM Watson IoT Platform IBM-EPBL/IBM-Project-8413-16 Find - OpenWeatherMap

openweathermap.org/find?utf8=✓&q=chennai

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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.

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Type here to search

28°C 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(z)
<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': 9216, '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
>>>
```