

Develop a Python script

Date	15 November 2022
Team ID	PNT2022TMID30650
Project Name	Project – Smart Solution for Railways
Maximum Marks	4 Marks

Smart solution for railways

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 window with the OpenWeatherMap website. The browser's address bar shows 'home.openweathermap.org'. The website's navigation bar includes links for 'Weather in your city', 'Guide', 'API', 'Dashboard', 'Marketplace', 'Pricing', 'Maps', 'Our Initiatives', 'Partners', 'Blog', 'For Business', 'Nithya', and 'Support'. A dropdown menu is open for the 'Nithya' user, showing options: 'My services', 'My API keys', 'My payments', 'My profile', and 'Logout'. A green confirmation message states: 'We have sent the confirmation link to nityashankar0509@gmail.com. Please check your email.' Below this, there are links for 'New Products', 'Services', 'API keys', 'Billing plans', 'Payments', 'Block logs', 'My orders', 'My profile', and 'Ask a question'. The main content area features a section titled 'Historical weather for any location' with a description of the 'Time Machine' technology and a list of features: 'Historical weather data available for ANY coordinate' and 'The depth of historical data have been extended to 40 YEARS'. There are 'Learn more' and 'Go to purchase' buttons. At the bottom, there is a 'Weather Dashboard' section with a gear icon.

New TabFind - OpenWeatherMap

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

OpenWeather

Weather in your city

GuideAPIDashboardMarketplacePricingMapsOur InitiativesPartnersBlogFor BusinessNithyaSupport

Weather in your city

chennai

Search

Chennai, IN haze

31°C

temperature from 31 to 31 °C, wind 5.14 m/s, clouds 40 %, 1010 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.

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ENG
IN

16:15
09-11-2022

```
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
>>>
```