

Develop a Python script

Date	05 November 2022
Team ID	PNT2022TMID44818
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 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

The screenshot shows the OpenWeatherMap website. The top navigation bar includes links for Weather in your city, Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, casv..., and Support. A green notification banner states: "We have sent the confirmation link to casvalsh2001@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 buttons for "Learn more" and "Go to purchase". Below this is a "Weather Dashboard" section with a description: "The OpenWeather Dashboard is a lightweight and flexible visual tool for our customers who would". The bottom section is titled "Weather in your city" and shows a search bar with "chennai" entered. A dropdown menu is open, showing options: My services, My API keys, My payments, My profile, and Logout. Below the search bar, the weather for Chennai, IN is displayed: "Chennai, IN scattered clouds", "31°C temperature from 31 to 31 °C, wind 4.63 m/s, clouds 40 %, 1010 hpa", and "Geo coords [13.0878, 80.2785]". At the bottom, there is a Plesk advertisement with the text "Control & Simplify your WebOps" and a "SIGN UP" button. The Windows taskbar at the bottom shows the date as 04-11-2022 and the time as 02:14 PM.

requests

```
a = "https://api.openweathermap.org/data/2.5/weather?q=Chennai,IN&appid=6d13d12f9cd34a07071a5795d01e2c47"
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)
```

File Edit Shell Debug Options Window Help

<Response (200)>

Temperature is : 298.14

s>>

===== RESTART: E:\BM\preWeatherMap.py =====

< Response (200)>

{'coord': {'lon': 80.2785, 'lat': 13.0878}, 'weather': [{'id': 701, 'main': 'Mist', 'description': 'mist', 'icon': '50n'}], {'id': 200, 'main': 'Rain', 'description': 'Tight rain', 'icon': 'JOn'}], 'base': 'stations', 'main': {'temp': 298.14, 'feels_like': 299.15, 'temp_min': 298.14, 'temp_max': 298.14, 'pressure': 1012, 'humidity': 94}, 'visibility': 200, 'wind': {'speed': 1.54, 'deg': 350}, 'clouds': {'all': 75}, 'dt': 1667317416, 'sys': {'type': 1, 'id': 928, 'country': 'IN', 'sunrise': 1667262751, 'sunset': 1667304738}, 'timezone': 19800, 'id': 1264527, 'name': 'Chennai', 'cod': 200}

Temperature is : 298.14

Humidity is : 94

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