

## Develop a Python script

Date	19 November 2022
Team ID	PNT2022TMID42180
Project Name	Project – Smart solution for railways

### 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 displays the OpenWeatherMap website interface. 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 confirmation message states: "We have sent the confirmation link to casvaish2001@gmail.com. Please check your email." Below this, a section titled "Historical weather for any location" features a large image of a sunset over a body of water. The text describes the "Time Machine" technology and lists features: "Historical weather data available for ANY coordinate" and "The depth of historical data have been extended to 40 YEARS". Buttons for "Learn more" and "Go to purchase" are present. The "Weather Dashboard" section is partially visible, mentioning it is a lightweight visual tool. The bottom section, "Weather in your city", shows a search bar with "chennai" entered and a "Search" button. A dropdown menu for "casv..." is open, showing options: "My services", "My API keys", "My payments", "My profile", and "Logout". The search results for Chennai, IN, show "scattered clouds", a temperature of 31°C, and other weather details. The footer includes a Plesk advertisement with the text "Control & Simplify your WebOps" and a "SIGN UP" button.

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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)
```

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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: 10 Col: 26

Windows taskbar: Rain to stop, 9:17 PM, 11/1/2022