

Develop a Python script

Date	15 November 2022
Team ID	PNT2022TMID42158
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

openweathermap.org/weather-dashboard

OpenWeather

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Weather dashboard

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OpenWeather Dashboard

A visual tool for working with weather data and timely tracking of dangerous phenomena

Try the Dashboard

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Weather in your city

bengaluru Search

Bengaluru, IN overcast clouds

24.9°C temperature from 20.9 to 24.9 °C, wind 2.78 m/s, clouds 100 %, 1015 hpa

Geo coords [12.9762, 77.6033]

Search engine is very flexible. How it works:

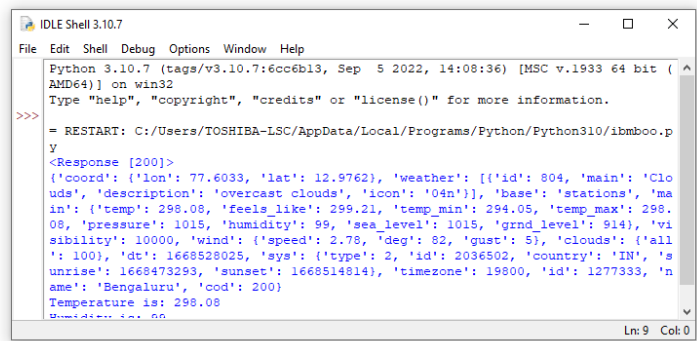
- To make it more precise put the city's name, comma, 2-letter country code (ISO3166). You will get all proper cities in chosen country. The order is important - the first is city name then comma then country. Example - London, GB or New York, US.

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```
import requests
a = "https://api.openweathermap.org/data/2.5/weather?q=Bengaluru,IN&appid=825ae4a1772dd29867b2c5b25c9fae88"
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)
```



```
IDLE Shell 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.
>>>
= RESTART: C:/Users/TOSHIBA-LSC/AppData/Local/Programs/Python/Python310/ibmboo.py
<Response [200]>
{'coord': {'lon': 77.6033, 'lat': 12.9762}, 'weather': [{'id': 804, 'main': 'Clouds', 'description': 'overcast clouds', 'icon': '04n'}], 'base': 'stations', 'main': {'temp': 298.08, 'feels_like': 299.21, 'temp_min': 294.05, 'temp_max': 298.08, 'pressure': 1015, 'humidity': 99, 'sea_level': 1015, 'grnd_level': 914}, 'visibility': 10000, 'wind': {'speed': 2.78, 'deg': 82, 'gust': 5}, 'clouds': {'all': 100}, 'dt': 1668528025, 'sys': {'type': 2, 'id': 2036502, 'country': 'IN', 'sunrise': 1668473293, 'sunset': 1668514814}, 'timezone': 19800, 'id': 1277333, 'name': 'Bengaluru', 'cod': 200}
Temperature is: 298.08
Humidity is: 99
```