DEVELOP A PYTHON SCRIPT

Date	05 November 2022
Team ID	PNT2022TMID25663
Project Name	Project- Signs with Smart Connectivity for Better Road Safety
Maximum Marks	4 Marks

Program:

Enter your API key here

api_key = "Your_API_Key"

base_url variable to store url

base_url = "http://api.openweathermap.org/data/2.5/weather?"

Give city name

city_name = input("Enter city name : ")

complete_url variable to store

complete url address

complete_url = base_url + "appid=" + api_key + "&q=" + city_name

get method of requests module

return response object

response = requests.get(complete_url)

json method of response object

convert json format data into

python format data

```python
x = response.json()


# Now x contains list of nested dictionaries
# Check the value of "cod" key is equal to
# "404", means city is found otherwise,
# city is not found
if x["cod"] != "404":

    # store the value of "main"
    # key in variable y
    y = x["main"]


    # store the value corresponding
    # to the "temp" key of y
    current_temperature = y["temp"]


    # store the value corresponding
    # to the "pressure" key of y
    current_pressure = y["pressure"]


    # store the value corresponding
    # to the "humidity" key of y
    current_humidity = y["humidity"]


    # store the value of "weather"
    # key in variable z
    z = x["weather"]


    # store the value corresponding
    # to the "description" key at
    # the 0th index of z
```

```python
        weather_description = z[0]["description"]


    # print following values
    print(" Temperature (in kelvin unit) = " +
            str(current_temperature) +
        "\n atmospheric pressure (in hPa unit) = " +
            str(current_pressure) +
        "\n humidity (in percentage) = " +
            str(current_humidity) +
        "\n description = " +
            str(weather_description))


else:
    print(" City Not Found ")
```

OUTPUT:

Enter city name : Delhi

 Temperature (in kelvin unit) = 312.15

 atmospheric pressure (in hPa unit) = 996

 humidity (in percentage) = 40

 description = haze