

DEVELOP A PYTHON SCRIPT

Date	3 november 2022
Team ID	PNT2022TMID47661
Project Name	Project- <u>Signs with Smart Connectivity for Better Road Safety</u>
Maximum Marks	4 Marks

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 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    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

```