

DEVELOP A PYTHON SCRIPT

Team ID	PNT2022TMID05359
Project Name	Project- <u>Smart Waste management system</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

```