

DEVELOP A PYTHON SCRIPT

Team ID	PNT2022TMID51479
Project Name	Project- <u>Signs with Smart Connectivity for Better Road Safety</u>
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
```

```
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 : chennai

Temperature (in kelvin unit) = 312.15

atmospheric pressure (in hPa unit) = 996

humidity (in percentage) = 40

description = haze