DEVELOP A PYTHON SCRIPT

Team ID	PNT2022TMID51107
Project Name	Smart Waste Management System for Metropolitan Cities
Maximum Marks	4 Marks

PYTHON CODE

```
# 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))
```

OUTPUT

```
Enter City Name : Chennai
Temperature(in kelvin unit) = 300.15
Atmospheric Pressure(in hPa unit) = 996
humidity(in percentage) = 72
Description : Mist
```