

## Final Code

Team ID	PNT2022TMID13797
Project Name	Smart Waste Management System for Metropolitan Cities

### SOURCE CODE (for Geo Location):

```
import requests
import urllib.parse
import folium

address = 'kodambakkam'
address1 = 'virugambakkam'
address2 = 'Royapettah'
address3 = 'Ambattur'
address4 = 'Coimbatore'

str1 = input("Enter the string:")

if(str1 == address):

    url = 'https://nominatim.openstreetmap.org/search/' + urllib.parse.quote(address) + '?format=json'
    response = requests.get(url).json()
    a = response[1]["lat"]
    b = response[1]["lon"]
    m = folium.Map(location =[a,b],zoom_start=15)
    folium.Marker(location =[a,b],popup=" kodambakkam",tooltip="click for more info").add_to(m)
    folium.Marker(location =[13.0559, 80.2265],popup=" ",tooltip="click for more info").add_to(m)
    folium.Marker(location =[13.0418, 80.2341],popup=" ",tooltip="click for more info").add_to(m)
    folium.Marker(location =[13.0532, 80.1922],popup=" ",tooltip="click for more info").add_to(m)
    m

if(str1 == address1):

    url1 = 'https://nominatim.openstreetmap.org/search/' + urllib.parse.quote(address1)
    + '?format=json'
```

```

response = requests.get(url1).json()
a = response[1]["lat"]
b = response[1]["lon"]
m = folium.Map(location =[a,b],zoom_start=15)
folium.Marker(location =[a,b],popup=" ",tooltip="click for more info").add_to(m)
folium.Marker(location =[22.6992, 75.8671],popup=" ",tooltip="click for more info").add_to(m)
folium.Marker(location =[13.0436, 80.1817],popup=" ",tooltip="click for more info").add_to(m)
#folium.Marker(location =[13.0532, 80.1922],popup=" ",tooltip="click for more info").add_to(m)
m
if(str1 == address2):
    url2 = 'https://nominatim.openstreetmap.org/search/' + urllib.parse.quote(address2)
    +'?format=json'
    response = requests.get(url2).json()
    a = response[1]["lat"]
    b = response[1]["lon"]
    m = folium.Map(location =[a,b],zoom_start=15)
    folium.Marker(location =[a,b],popup=" Royapettah",tooltip="click for more info").add_to(m)
    folium.Marker(location =[ 13.0497, 80.2577],popup=" kodambakkam",tooltip="click for more
    info").add_to(m)
    folium.Marker(location =[13.047059,80.264052],popup="Harshitha's home",tooltip="click for more
    info").add_to(m)
    m
if(str1 == address3):
    url2 = 'https://nominatim.openstreetmap.org/search/' + urllib.parse.quote(address3)
    +'?format=json'
    response = requests.get(url2).json()
    a = response[1]["lat"]
    b = response[1]["lon"]
    m = folium.Map(location =[a,b],zoom_start=15)
    folium.Marker(location =[a,b],popup=" Ambattur",tooltip="click for more info").add_to(m)
    folium.Marker(location =[13.0892, 80.1613],popup=" ",tooltip="click for more info").add_to(m)
    folium.Marker(location =[13.1142, 80.1527],popup=" ",tooltip="click for more info").add_to(m)
    folium.Marker(location =[13.1197, 80.1501],popup=" ",tooltip="click for more info").add_to(m)

```

m

```
if(str1 == address4):
```

```
    url3 = 'https://nominatim.openstreetmap.org/search/' + urllib.parse.quote(address4)
    + '?format=json'
```

```
    response = requests.get(url3).json()
```

```
    a = response[1]["lat"]
```

```
    b = response[1]["lon"]
```

```
m = folium.Map(location=[a,b],zoom_start=15)
```

```
folium.Marker(location=[a,b],popup="Coimbatore",tooltip="click for more info").add_to(m)
```

```
folium.Marker(location=[11.0242, 77.0028],popup=" ",tooltip="click for more info").add_to(m)
```

```
folium.Marker(location=[10.822477, 77.016144],popup=" ",tooltip="click for more info").add_to(m)
```

```
folium.Marker(location=[11.0102, 76.9504],popup=" ",tooltip="click for more info").add_to(m)
```

m

## OUTPUT(Google Colab):

