Final Code

Team ID	PNT2022TMID27888
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'
```

```python
 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):