```
#Project: Smart Waste Management System for Metropolitan cities #Team ID:
PNT2022TMID01880
#Installing necessary libraries
import wiotp.sdk.device
import time
import random
import requests
import math
#Configuration details for connecting python script to IBM Watson IOT Platform
myConfig = { "identity": {
"orgld": "1hx03x",
"typeld": "cloud",
"deviceId": "232323"
"auth": {
"token": "12345678"
}}
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data)
#Connecting the client to ibm watson iot platform
client = wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers= None)
client.commandCallback = myCommandCallback
client.connect()
print("CONNECTED");
while True:
    res = requests.get('https://ipinfo.io/')
    data = res.json()
    loc = data['loc'].split(',')
    theta = random.uniform(0,2*math.pi)
    area = (0.05**2)*math.pi
    radius = math.sqrt(random.uniform(0,area/math.pi))
    latitude,longitude = [float(loc[0])+radius*math.cos(theta),
float(loc[1])+radius*math.sin(theta)]
    binlevel=random.randint(10,100)
    distance = random.randint(10,100)
    if binlevel>80:
         myData={'Distance':distance, 'latitude':latitude,
'longitude':longitude, 'binlevel':binlevel}
         client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
         client.commandCallback = myCommandCallback
         print("BIN IS FULL...")
         print("SENDING THE DATA...")
         time.sleep(2)
    else:
         print("BIN IS IN NORMAL LEVEL...")
         time.sleep(2)
#Disconnect the client connection
```

client.disconnect()