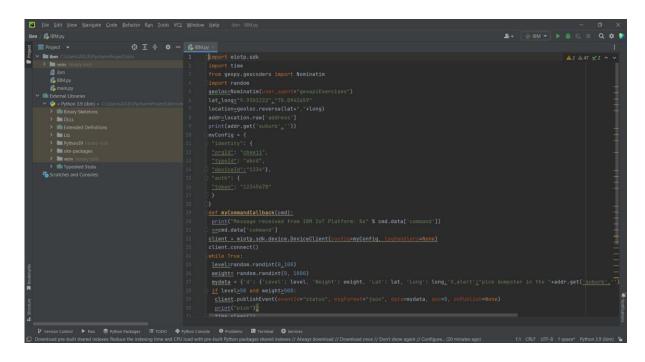
DATE	14 NOVEMBER 2022
TEAM ID	PNT2022TMID11512
PROJECT NAME	SMART WASTE MANAGEMENT FOR
	METROPOLITAN CITIES-IOT

PYTHON CODE:

```
import wiotp.sdk
import time
from geopy.geocoders import Nominatim
import random
geoloc=Nominatim(user_agent="geoapiExercises")
lat,long="9.9301222","78.0942659"
location=geoloc.reverse(lat+","+long)
addr=location.raw['address']
print(addr.get('suburb',''))
myConfig = {
"identity": {
"orgId": "cbseji",
"typeId": "abcd",
"deviceId":"1234"},
"auth": {
"token": "12345678"
}
}
def myCommandCallback(cmd):
print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
level=random.randint(0,100)
weight= random.randint(0, 1000)
mydata = {'d': {'Level': level, 'Weight': weight, 'Lat': lat, 'Long': long,'V_alert':"pick dumpster in the
"+addr.get('suburb',")+"street"+addr.get('city',")}}
if level>50 and weight>500:
client.publishEvent(eventId="status", msgFormat="json", data=mydata, qos=0, onPublish=None)
print("pick");
time.sleep(2)
client.publishEvent(eventId="status", msgFormat="json", data={'d': {'Level': level, 'Weight': weight,
'Lat': lat, 'Long': long,'V_alert':""}}, qos=0,onPublish=None)
client.publishEvent(eventId="status", msgFormat="json", data=mydata, qos=0, onPublish=None)
print("Published data Successfully: %s", mydata)
client.commandCallback = myCommandCallback
time.sleep(2)
client.disconnect()
```

OUTPUT:



```
Be Edit Yew Manipate Code Defactor Run Took VG Mindow Help ton Halloy

| Published data Successfully: No ('d': ('Levell: 62, 'Meight': 687, 'Lat': '9.9301222', 'Long': '78.0942659', 'V_alert': 'pick dumpster in the NalawasalstreetHaduras')}
| Published data Successfully: No ('d': ('Levell: 52, 'Meight': 53, 'Lat': '9.9301222', 'Long': '78.0942659', 'V_alert': 'pick dumpster in the NalawasalstreetHaduras')}
| Published data Successfully: No ('d': ('Levell: 64, 'Meight': 51, 'Lat': '9.9301222', 'Long': '78.0942659', 'V_alert': 'pick dumpster in the NalawasalstreetHaduras')}
| Published data Successfully: No ('d': ('Levell: 64, 'Meight': 61, 'Lat': '9.9301222', 'Long': '78.0942659', 'V_alert': 'pick dumpster in the NalawasalstreetHaduras')}
| Published data Successfully: No ('d': ('Levell: 64, 'Meight': 61, 'Lat': '9.9301222', 'Long': '78.0942659', 'V_alert': 'pick dumpster in the NalawasalstreetHaduras')}
| Published data Successfully: No ('d': ('Levell: 63, 'Meight': 63, 'Lat': '9.9301222', 'Long': '78.0942659', 'V_alert': 'pick dumpster in the NalawasalstreetHaduras')}
| Published data Successfully: No ('d': ('Levell: 89, 'Meight': 68, 'Lat': '9.9301222', 'Long': '78.0942659', 'V_alert': 'pick dumpster in the NalawasalstreetHaduras')}
| Published data Successfully: No ('d': ('Levell: 89, 'Meight': 68, 'Lat': '9.9301222', 'Long': '78.0942659', 'V_alert': 'pick dumpster in the NalawasalstreetHaduras')}
| Published data Successfully: No ('d': ('Levell: 99, 'Meight': 64, 'Meight': 69, 'Lat': '9.9301222', 'Long': '78.0942659', 'V_alert': 'pick dumpster in the NalawasalstreetHaduras')}
| Published data Successfully: No ('d': ('Levell: 99, 'Meight': 69, 'Lat': '9.9301222', 'Long': '78.0942659', 'V_alert': 'pick dumpster in the NalawasalstreetHaduras')}
| Published data Successfully: No ('d': ('Levell: 99, 'Meight': 69, 'Lat': '9.9301222', 'Long': '78.0942659', 'V_alert': 'pick dumpster in the NalawasalstreetHaduras')}
| Published data Successfully: No ('d': ('Levell: 96, 'Meight': 67, 'Meight': 67, 'Meight': 67, 'Meig
```