

## DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM

Team ID	PNT2022TMID32675
Project name	SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

### PROGRAM :

```
import json
import collections
import wiotp.sdk.device
import time
myConfig = {
    "identity" : {
        "orgId" : "cri1at",
        "typeId" : "NodeMCU",
        "deviceId" : "12345"
    },
    "auth":{
        "token":"12345678"
    }
}

client =
wiotp.sdk.device.DeviceClient(config=myConfig
,logHandlers=None)
client.connect()
while True:

    #Dumpster location Thanjavur Big Temple
    #latitude = 10.7828
    #longitude = 79.1318
    #weight=0

    #dumsterLocation SARANATHAN COLLEGE
OF ENGINEERING
    latitude = 10.7560
    longitude = 78.6513
```

weight=57

#dumsterLocation Trichy central bus stand

#latitude = 10.798523

#longitude = 78.680381

#weight=80

#dumsterLocation Thanjavur new bus stand

#latitude = 10.749894

#longitude = 79.112159

#weight=60

```
myData = {'latitude':latitude,
'longitude':longitude,'weight':weight}
```

```
client.publishEvent(eventId="status",msgFormat="
json",data=myData,qos=0,onPublish=None)
```

```
print("Data published to IBM IoT platform :
",myData)
```

```
time.sleep(20)
```

```
client.disconnect()
```