

# CODING & SOLUTIONING

Date	19 November 2022
Team ID	PNT2022TMID50056
Project Name	IOT based Smart waste management system in metropolitan cities

## Python Code: For Distance Tracking

```
import wiotp.sdk.device

import time

import random

myConfig = {
    "identity": {
        "orgId": " wjnzmmz",
        "typeId": "Bin",
        "deviceId": "Bin_1"
    },
    "auth": {
        "token": "12345678"
    }
}

def myCommandCallback (cmd):

    print ("Message received from IBM IoT Platform: %s" % cmd.data['command'])

    m=cmd.data['command']
```

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```
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)client.connect()

def pub (data):

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

    print ("Published data Successfully: %s", myData)

while True:

    myData={'name': 'Bin1', 'lat': 13.092677, 'lon': 80.188314}

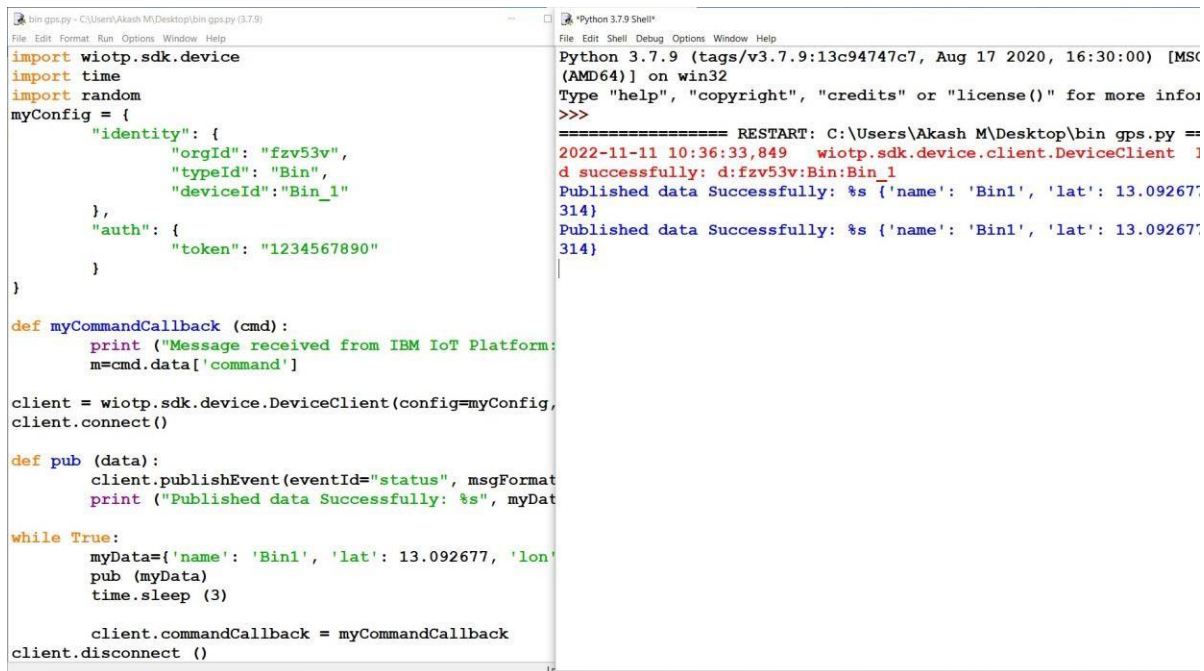
    pub (myData)

    time.sleep (3)

    client.commandCallback =

myCommandCallbackclient.disconnect ()
```

## OUTPUT:



```
bin gps.py - C:\Users\Akash M\Desktop\bin gps.py (3.7.9)
Python 3.7.9 Shell
File Edit Shell Debug Options Window Help
Python 3.7.9 (tags/v3.7.9:13c94747c7, Aug 17 2020, 16:30:00) [MS
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more info
>>>
===== RESTART: C:\Users\Akash M\Desktop\bin gps.py ==
2022-11-11 10:36:33,849 wiotp.sdk.device.client.DeviceClient 1
d successfully: d:fzv53v:Bin:Bin_1
Published data Successfully: %s {'name': 'Bin1', 'lat': 13.09267
314}
Published data Successfully: %s {'name': 'Bin1', 'lat': 13.09267
314}
```