

Sprint

Team ID	PNT2022TMID38320
Project Name	Smart Waste Management System for Metropolitan Cities

Python Code:

```
bm.py - C:\Users\shiv\Desktop\bm.py (379)
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import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "appId": "059102",
        "typeId": "smartwastemanagement",
        "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:
    latitude=random.uniform(27.2046,125.35)
    longitude=random.uniform(77.4977,100.1526)
    binlevel=random.randint(10,100)
    if binlevel >= 90:
        myData={'latitude':latitude, 'longitude':longitude,'binlevel':binlevel}
        client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
                           onPublish=None)
        ##print("Published data Successfully: is", myData)
        print("!!BIN IS FULL!! ",myData)
        client.commandCallback = myCommandCallback
        time.sleep(4)
    else :
        print("BIN IS IN NORMAL LEVEL")
        time.sleep(4)
client.disconnect()
```

Python 3.7.9 Shell

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Python 3.7.9 (tags/v3.7.9:13c9474c7, Aug 17 2020, 16:30:00) [MSC v.1900 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:\Users\siva\Desktop\ilm.py =====

2022-11-11 13:22:13.269 *iotp.suk.device.client.DeviceClient INFO Connected successfully: dr059iol:smartwastemanagement:1274

SIN IS IN NORMAL LEVEL

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!!!SIN IS FULL!!! ['latitude': 72.4783972423038, 'longitude': 79.43907707171421, 'binlevel': 85]

!!!SIN IS FULL!!! ['latitude': 120.90255571441819, 'longitude': 62.06353621916947, 'binlevel': 96]

SIN IS IN NORMAL LEVEL

SIN IS IN NORMAL LEVEL

SIN IS IN NORMAL LEVEL