

DEVELOP A PYTHON SCRIPT

Date	03 November 2022
Team ID	PNT2022TMID36201
Project Name	Smart waste management system for metropolitan cities
Marks	10 marks

PYTHON CODE:

```
#IBM Watson IOT Platform
```

```
#pip install wiotp-sdk
```

```
import wiotp.sdk.device
```

```
import time
```

```
import random
```

```
myConfig = {
```

```
    "identity": {
```

```
        "orgId": "r1nl13",
```

```
        "typeId": "SathyaPriya",
```

```
        "deviceId": "2609"
```

```
    },
```

```
    "auth": {
```

```
        "token": "i5QqQIPGeqAES5iqgy"
```

```
    }
```

```
}
```

```
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:
```

```
    Dust = random.randint(0,100)
```

```
    if (Dust > 90):
```

```
        print("Dustbin Over Flow")
```

```
    myData={'Dustbin1':Dust}
```

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

```
    print(myData)
```

```
    client.commandCallback = myCommandCallback
```

```
    time.sleep(2)
```

```
##client.disconnect()
```

```
    if(Dust>80):
```

```
        print("")
```

```
    myData={'Dustbin2':Dust}
```

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

```
    print(myData)
```

```
    client.commandCallback = myCommandCallback
```

```
    time.sleep(2)
```

```
##client.disconnect()
```

```
    if(Dust>78):
```

```
        print("")
```

```
    myData={'Dustbin3':Dust}
```

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

```
    print(myData)
```

```
client.commandCallback = myCommandCallback

time.sleep(2)

##client.disconnect()

if(Dust>70):
    print("")

myData={'Dustbin4':Dust}

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

print(myData)

client.commandCallback = myCommandCallback

time.sleep(2)

client.disconnect()
```