Sprint - 1

Date	16 November 2022
Team ID	PNT2022TMID36201
Project Name	Smart Waste Management
	System For Metropolitan Cities

```
#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()
```

PYTHON SCRIPT:

```
File Edit Format Run Options Window Help
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
       "orgId": "rln113",
       "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={'Dustbinl':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)
    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 (mvData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

OUTPUT:

```
*Python 3.7.4 Shell*
```

```
File Edit Shell Debug Options Window Help
```

```
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
======= RESTART: C:\Users\SRI RAJAM\Documents\Demo.py =======
2022-11-19 12:32:42,119 wiotp.sdk.device.client.DeviceClient INFO
                                                                    Connected successfully: d:rlnl13:SathyaPriya:2609
{'Dustbinl': 41}
2022-11-19 12:32:44,025 wiotp.sdk.device.client.DeviceClient ERROR Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 12:32:45,947 wiotp.sdk.device.client.DeviceClient INFO
                                                                     Connected successfully: d:rlnll3:SathyaPriya:2609
{'Dustbin2': 41}
{'Dustbin3': 41}
{'Dustbin4': 41}
{'Dustbinl': 80}
{'Dustbin2': 80}
2022-11-19 12:32:54,634 wiotp.sdk.device.client.DeviceClient ERROR Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 12:32:56,743 wiotp.sdk.device.client.DeviceClient INFO
                                                                      Connected successfully: d:rlnl13:SathyaPriya:2609
{'Dustbin3': 80}
2022-11-19 12:32:58,681 wiotp.sdk.device.client.DeviceClient ERROR
                                                                     Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 12:33:00,540 wiotp.sdk.device.client.DeviceClient INFO
                                                                     Connected successfully: d:rln113:SathvaPriva:2609
{'Dustbin4': 80}
{'Dustbinl': 5}
{'Dustbin2': 5}
{'Dustbin3': 5}
{'Dustbin4': 5}
2022-11-19 12:33:09,930 wiotp.sdk.device.client.DeviceClient ERROR Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 12:33:12,599 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:rlnl13:SathyaPriya:2609
{'Dustbinl': 69}
{'Dustbin2': 69}
{'Dustbin3': 69}
{'Dustbin4': 69}
2022-11-19 12:33:20,614 wiotp.sdk.device.client.DeviceClient ERROR Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 12:33:27,786 wiotp.sdk.device.client.DeviceClient INFO
                                                                      Connected successfully: d:rlnl13:SathyaPriya:2609
{'Dustbinl': 44}
{'Dustbin2': 44}
2022-11-19 12:33:30,520 wiotp.sdk.device.client.DeviceClient ERROR Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 12:33:32,552 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:rln113:SathyaPriya:2609
{'Dustbin3': 44}
```

Data in IBM CLOUD Platform:



