SPRINT 1

TEAM ID	PNT2022TMID11049
PROJECT NAME	Smart Waste Management System For Metropolitan Cities

PYTHON CODE:

```
import time
import sys
import ibmiotf.applicationimport
ibmiotf.device import random
organization = "ytb5k8"
deviceType = "Pooja"device
Id = "1234567890s"
authMethod = "use-token-auth"
authToken = "6bu071Fgydbg*5F85L"
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="smart bin opened":
        print ("The Smart Bin is Open now")else :
        print ("The Smart Bin is Close now")
try:
        deviceOptions = {"org": organization, "type": deviceType, "id": deviceId,
"auth-method": authMethod, "auth-token": authToken}
deviceCli = ibmiotf.device.Client(deviceOptions)

except Exception as e:
        print("Caught exception connecting device: %s" % str(e))sys.exit()
deviceCli.connect()
while True:
        distance=random.randint(0,200)
        weight=random.randint(0,10)
        data = { 'distance' : distance, 'weight': weight }
        def myOnPublishCallback():
            print ("Published Data to IOT Watson: \n                    Distance= %s cm\n" %distance,
"                    Weight = %s Kg\n" % weight)
        success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
        if not success:
            print("Not connected to IoTF")
        time.sleep(10)
        deviceCli.commandCallback = myCommandCallback
deviceCli.disconnect()
```

OUTPUT:


Shell Debug Options Window Help
3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
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ART: C:\Users\MPK\AppData\Local\Programs\Python\Python37\sprint 1.py ==
-17 17:41:19.448 ibmiotf.device.Client INFO Connected successfully: d:ytb5k8:Pooja:1234567890s
ed Data to IOT Watson:
Distance= 48 cm
Weight = 8 Kg
ed Data to IOT Watson:
Distance= 168 cm
Weight = 2 Kg
ed Data to IOT Watson:
Distance= 198 cm
Weight = 10 Kg
ed Data to IOT Watson:
Distance= 113 cm
Weight = 5 Kg
ed Data to IOT Watson:
Distance= 143 cm
Weight = 3 Kg
ed Data to IOT Watson:
Distance= 165 cm
Weight = 9 Kg
ed Data to IOT Watson:
Distance= 159 cm
Weight = 10 Kg
ed Data to IOT Watson:
Distance= 135 cm
Weight = 3 Kg