

## **SPRINT 3**

### **Python script**

```
import time
```

```
import sys
```

```
import ibmiotf.application
```

```
import ibmiotf.device
```

```
import random
```

```
organization="7lnn7p"
```

```
devicetype="preethi"
```

```
deviceid="1436"
```

```
authMethod="token"
```

```
authToken="09876543211"
```

```
def myCommandCallback(cmd):
```

```
    print("Command received:%s"%cmd.data['command'])
```

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

```
    if status == "lighton":
```

```
        print("led in on")
```

```
    else:
```

```
        print("led is off")
```

```
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:
```

```
    time.sleep(5)
```

```
    Ultrasonic=random.randint(0,80)
```

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

```
    lat=round(random.uniform(11.03,11.50),6)
```

```
    long=round(random.uniform(76.80,76.90),6)
```

```
    GPS=str(lat)+str(',')+str(long)
```

```
    myData={'Ultrasonic':Ultrasonic,'Weight':Weight,'GPS':GPS}
```

```
    def myOnpublishCallback():
```

```
        print("Published Ultrasonic=%sCm"%Ultrasonic,"Weight:%s
kg"%Weight,"GPS:%s"%GPS)
```

```
success=deviceCli.publishEvent("IoTSensor","json",data=myData,qo
s=0,on_publish=myOnpublishCallback)
```

```
    if not success:
```

```
print("Not connected to IoTF")
```

```
time.sleep(1)
```

```
deviceCli.commandCallback=myCommandCallback
```

```
deviceCli.disconnect()
```

## **RESULT**

```
2022-11-19 07:35:41,877  ibmiotf.device.Client      INFO      Connected successfully: d:7lnn7p:preethi:1436
Published Ultrasonic=50Cm Weight:62 kg GPS:11.307878,76.818102
Published Ultrasonic=67Cm Weight:26 kg GPS:11.337927,76.831243
Published Ultrasonic=7Cm Weight:37 kg GPS:11.283821,76.85311
Published Ultrasonic=20Cm Weight:100 kg GPS:11.052519,76.871068
Published Ultrasonic=37Cm Weight:87 kg GPS:11.394791,76.835771
Published Ultrasonic=73Cm Weight:87 kg GPS:11.126017,76.813982
Published Ultrasonic=74Cm Weight:22 kg GPS:11.183094,76.886264
Published Ultrasonic=20Cm Weight:24 kg GPS:11.123936,76.885071
Published Ultrasonic=31Cm Weight:91 kg GPS:11.247399,76.804742
Published Ultrasonic=43Cm Weight:40 kg GPS:11.213357,76.830845
Published Ultrasonic=3Cm Weight:82 kg GPS:11.335982,76.88326
Published Ultrasonic=71Cm Weight:97 kg GPS:11.395248,76.848311
Published Ultrasonic=75Cm Weight:34 kg GPS:11.162933,76.85075
```

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