

SPRINT – 2

Team
ID:PNT2022TMID05191

Python Code

```
import time
import sys

import ibmiotf.application

import ibmiotf.device
import random

#Provide your IBM Watson

Device Credentials

organization

= "2melo1"
deviceType =

"waste"
deviceId = "1234"
authMethod =

"token"
authToken = "12345678"

# Initialize GPIO

def myCommandCallback(cmd):

print("Commandreceived: %s" %

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

ifstatus=="waste level":

    print ("waste level monitored")

else :

    print ("weight level monitored")
#print(cmd)

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()
```

```
# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type
"greeting" 10 times deviceCli.connect()
```

```
while True:
```

```
    #Get Sensor Data from DHT11
```

```
    level=random.randint(0,100) weight=random.randint(0,100)
```

```
    data = { 'level' : level, 'weight': weight }
```

```
    #print data
```

```
    def myOnPublishCallback():
```

```
        print ("Published Level = %s %" % level, "Weight = %s %" % weight, "to IBM Watson")
```

```
        success = deviceCli.publishEvent("IoTsensor", "json", data,
```

```
qos=0, on_publish=myOnPublishCallback)
```

```
        if not success:
```

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

```
time.sleep(20)
```

```
deviceCli.commandCallback = myCommandCallback
```

```
# Disconnect the device and application from the cloud deviceCli.disconnect()
```

OUTPUT:

