SPRINT - 2

Team ID:PNT2022TMID12813

Python Code

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device
Credentialsorganization = "2melo1"
deviceType = "waste"
deviceId = "1234"
authMethod = "token"
authToken = "12345678"
# Initialize GPIO
def \ my Command Callback (cmd):
  print("Command received: %s" % cmd.data['command'])
  status=cmd.data['command']
 if status=="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
```

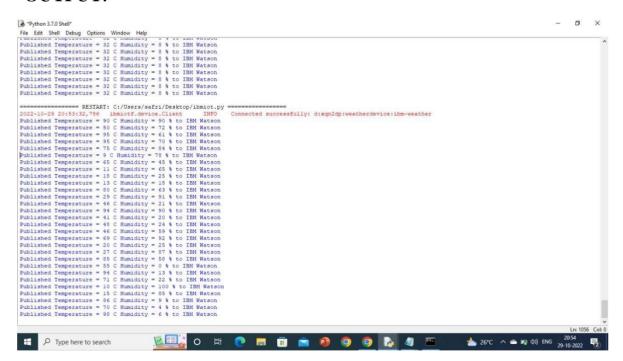
```
def myOnPublishCallback():
    print ("Published Level = %s %%" % level, "Weight = %s %%" % weight, "to IBM Watson")
    success = deviceCli.publishEvent("IoTSensor", "json", data,
    qos=0,on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoTF")
        time.sleep(20)

deviceCli.commandCallback = myCommandCallback
```

OUTPUT:

deviceCli.disconnect()

Disconnect the device and application from the cloud



NODE RED INPUT AND OUPUT:

