SPRINT – 2

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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("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")
```

deviceCli.commandCallback = myCommandCallback

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

OUTPUT:

```
File Edit Shell Debug Options Window Help

Python 3.7.0 (va:7.0:ibf5oc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

RESTART: C:/Users/welcome/AppData/Local/Programs/Python/Python/Sython/Sython/Python/Sython/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Python/Pyth
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