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("Commandreceived: %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)
```

device Cli.command Callback = my Command Callback

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

OUTPUT:

NODE RED INPUT AND OUPUT:



