#### SPRINT - 2

## Team ID:PNT2022TMID28057

# **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")
    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:**

```
File Edit Shell Debug Options Window Help

Fython 3.7.0 (v3.7.0:lbf9cc5093, 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/Frograms/Fython/Fython37/smart waste.py
2022-11-06 23:23:06,437 immiotf.device.Client INFO Connected successfully: d:2melol;waste:1234

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Fublished Level = 70 * Weight = 59 % to IBM Watson

Fublished Level = 70 % Weight = 59 % to IBM Watson

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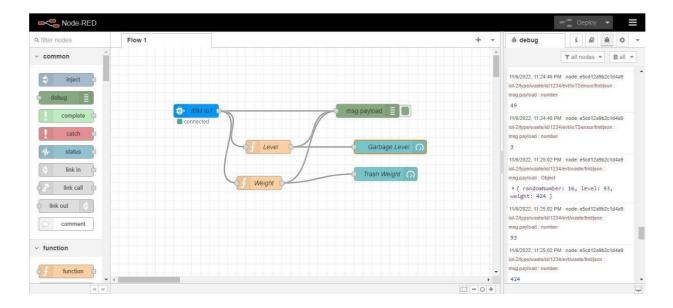
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## **NODE RED INPUT AND OUPUT:**



#### Smart Waste

