## **DELIVERY OF SPRINT - 2**

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PROJECT NAME	SMART WASTE MANAGEENT FOR
	METROPOLITAN CITIES

## Code:

import time

import sys

import ibmiotf.application

import ibmiotf.device

import random

#Provide your IBM Watson Device Credentials

organization = "9opizh"

deviceType = "NodeMCU"

deviceId = "123456"

authMethod = "token"

authToken = "8098439666"

# Initialize GPIO

```
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
  status=cmd.data['command']
  if status=="lighton":
    print ("led is on")
  else:
    print ("led is off")
  #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
    weight=random.randint(0,100)
    level=random.randint(0,100)
    data = { 'weight' : weight, 'level':level }
    #print data
    def myOnPublishCallback():
       print ("Published Weight = %s Kg" % weight, "level = %s %%" % level,
"to IBM Watson")
    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
    if not success:
       print("Not connected to IoTF")
    time.sleep(1)
    deviceCli.commandCallback = myCommandCallback
```

## # Disconnect the device and application from the cloud

## **OUTPUT:**

