Develop a python script

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Project Name	Project :Smart Waste Management System for Metropolitan Cities

Step 1: Open python idle Step2: Type the program Step 3: Then click on file and save the document Step 4: Then click on Run then Run Module Step 5: output will be appeared in the idle window

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random


#Provide your IBM Watson Device Credentials
organization = "up54lj"
deviceType = "Microcontroller"
deviceId = "Device07"
authMethod = "token"
authToken = "12345678"

# 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

       level=random.randint(0,100)
       load=random.randint(5,100)

       data = { 'level' : level, 'load': load }
       #print data
       def myOnPublishCallback():
          print ("Published GARBAGE LEVEL = %s C" % level, "LOAD = %s %%" %
load)

       success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
       if not success:
          print("Not connected to IoTF")
       time.sleep(2)

       deviceCli.commandCallback = myCommandCallback

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

Screenshots Python script: