DEVELOP THE PYTHON SCRIPT

Team ID	PNT2022TMID11896
Project Name	Smart Waste Management System For Metropolitan

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "3f3tah"
deviceType = "sensor"
deviceId = "123456"
authMethod = "token"
authToken = "1234567890"
# 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:
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PROJECT NAME Smart Waste Management
System For Metropolitan Cities
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
temp=random.randint(0,100)
Humid=random.randint(0,100)
data = { 'temp' : temp, 'Humid': Humid }
#print data
def myOnPublishCallback():
print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid, "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
deviceCli.disconnect()