PYTHON CODE

```python
import time

import sys

import ibmiotf.application

import ibmiotf.device

import random

#Provide your IBM Watson Device

organization = "wj54qd"

deviceType="abc"

deviceId = "123"

authMethod = "token"

authToken= "12345678"

# Initialize GPIO

def myCommandCallback(cmd):

    print("Command received: %s" % cmd.data['command'])

    status=cmd.data['command']

    if status=="motoron":

        print ("motor is on")

    elif status == "motoroff":

        print ("motor is off")

    else :

        print("please send proper command")

try:

    deviceOptions = {"org": organization, "type": deviceType, "id":
deviceId,"auth-method": authMethod, "auth-token":authToken}
```

```python
        deviceCli = ibmiotf.device.Client(deviceOptions)

#..........................................

except Exception as e:

    print("Caught exception connecting device: %s" % str(e))

    sys.exit()

deviceCli.connect()

while True:

    temp=random.randint(90,110)

    Humid=random.randint(60,100)

    Mois=random.randint(20,120)

    data = { 'temp' : temp, 'hum': Humid, 'mois' :Mois}

    #print data

    def myOnPublishCallback():

        print ("published Temperature = %s C" % temp, "Humidity = %s %%" %
Humid,"Moisture =%s deg c" %Mois, "to IBM Watson")



    success = deviceCli.publishEvent("event", "json", data,qos=0,
on_publish=myOnPublishCallback)

    if not success:

        print("Not connected to IoTF")

    time.sleep(3)

    deviceCli.commandCallback = myCommandCallback

#Disconnect the device and application from the cloud

deviceCli.disconnect()
```