```
def myCommandCallback(cmd): # function for Callback if cm.data['command'] == 'motoron':
print("MOTOR ON IS RECEIVED")
elif cmd.data['command'] == 'motoroff': print("MOTOR OFF IS RECEIVED")
if cmd.command == "setInterval":
 else:
if 'interval' not in cmd.data:
print("Error - command is missing requiredinformation: 'interval"")
interval = cmd.data['interval']
elif cmd.command == "print":
if 'message' not in cmd.data:
print("Error - commandis missing requiredinformation: 'message'")
else:output = cmd.data['message']
print(output)
try:
deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "authmethod":
authMethod,
"auth-token": authToken}
                                   deviceCli
= ibmiotf.device.Client(deviceOptions) # .....
exceptException 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:
deviceCli.commandCallback = myCommandCallback
# Disconnect the device and application from the cloud deviceCli.disconnect()
SENSOR.PY
import time import sysimport ibmiotf.application importibmiotf.device
import random
def myCommandCallback(cmd):
print("Command received: %s" % cmd.data['command']) print(cmd)
try:
deviceOptions = {"org": organization, "type": deviceType, "id": deviceId,
"auth-method": authMethod, "auth-token": authToken} deviceCli =
ibmiotf.device.Client(deviceOptions)
#.....
exceptException 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:
temp=random.randint(0,100) pulse=random.randint(0,100)
soil=random.randint(0,100)
data = { 'temp' : temp, 'pulse': pulse ,'soil':soil} #print data
                                                               def
```

my On Publish Callback ():

print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % pulse, "Soil Moisture = %s %%" % soil, "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()