Assignment 2

Code:

```
import wiotp.sdk.device
import time
import random as r
myConfig = {
    "identity": {
        "orgId": "51y8x8",
        "typeId": "abcd",
        "deviceId": "wokwi"
    },
    "auth": {
        "token": "12345678"
    }
}


def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m = cmd.data['command']


client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    temp = r.randint(-20, 125)
    hum = r.randint(0, 100)
    if (temp > 40):
        print("Temperature is high")
        payload = {'alert': "Temperature is high", 'temperature': temp, 'humidity':
hum,
                   }
    elif (hum > 60):
        print("Humidity is high")
        payload = {'alert': "Humidity is high", 'temperature': temp, 'humidity':
hum,
                   }
    elif (temp > 40 and hum > 60):
        print("Temperature and Humidity is high")
        payload = {'alert': "Temperature and Humidity is high", 'temperature':
temp, 'humidity': hum,
                   }
    else:
        payload = {'temperature': temp, 'humidity': hum}

    client.publishEvent(eventId="status", msgFormat="json",
                        data=payload, qos=0, onPublish=None)
    print(f"Published data Successfully: {payload}")
```

```
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

IBM Cloud Recent

Event	Value	Format	Last Received
status	{"alert":"Temperature is high","temperature":74,...	json	a few seconds ago
status	{"alert":"Temperature is high","temperature":89,...	json	a few seconds ago
status	{"alert":"Temperature is high","temperature":56,...	json	a few seconds ago
status	{"temperature":29,"humidity":4}	json	a few seconds ago
status	{"temperature":-17,"humidity":10}	json	a few seconds ago