**PYTHON SCRIPT**

| TEAM ID | PNT2022TMID32732 |
| --- | --- |
| PROJECT NAME | INDUSTRY SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM |

```
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "ewzh7u",
        "typeId": "fire-management",
        "deviceId":"222030"
    }
    "auth": {
        "token": "17171717"
    }
}

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=random.randint(-40,84)
   hum=random.randint(0,100)
   gas=random.randint(0,100)

   if(temp>68 and gas>80):

      myData={'temperature':str(temp)+chr(176)+"C", 'humidity':str(hum)+" %", 'gaslevel':str(gas)+" %",
'condition':"Turn On Harzard-Protection System" }

      print("Turn On Harzard-Protection System")

   elif(temp>68 and gas<80):

      myData={'temperature':str(temp)+chr(176)+"C", 'humidity':str(hum)+" %", 'gaslevel':str(gas)+" %",
'condition':"Turn On Fire-Protection System" }

      print("Turn On Fire-Protection System")

   elif(temp<68 and gas>80):

      myData={'temperature':str(temp)+chr(176)+"C", 'humidity':str(hum)+" %", 'gaslevel':str(gas)+" %",
'condition':"Turn On Ventilation System" }

      print("Turn On Ventilation-Protection System")

   else:
```

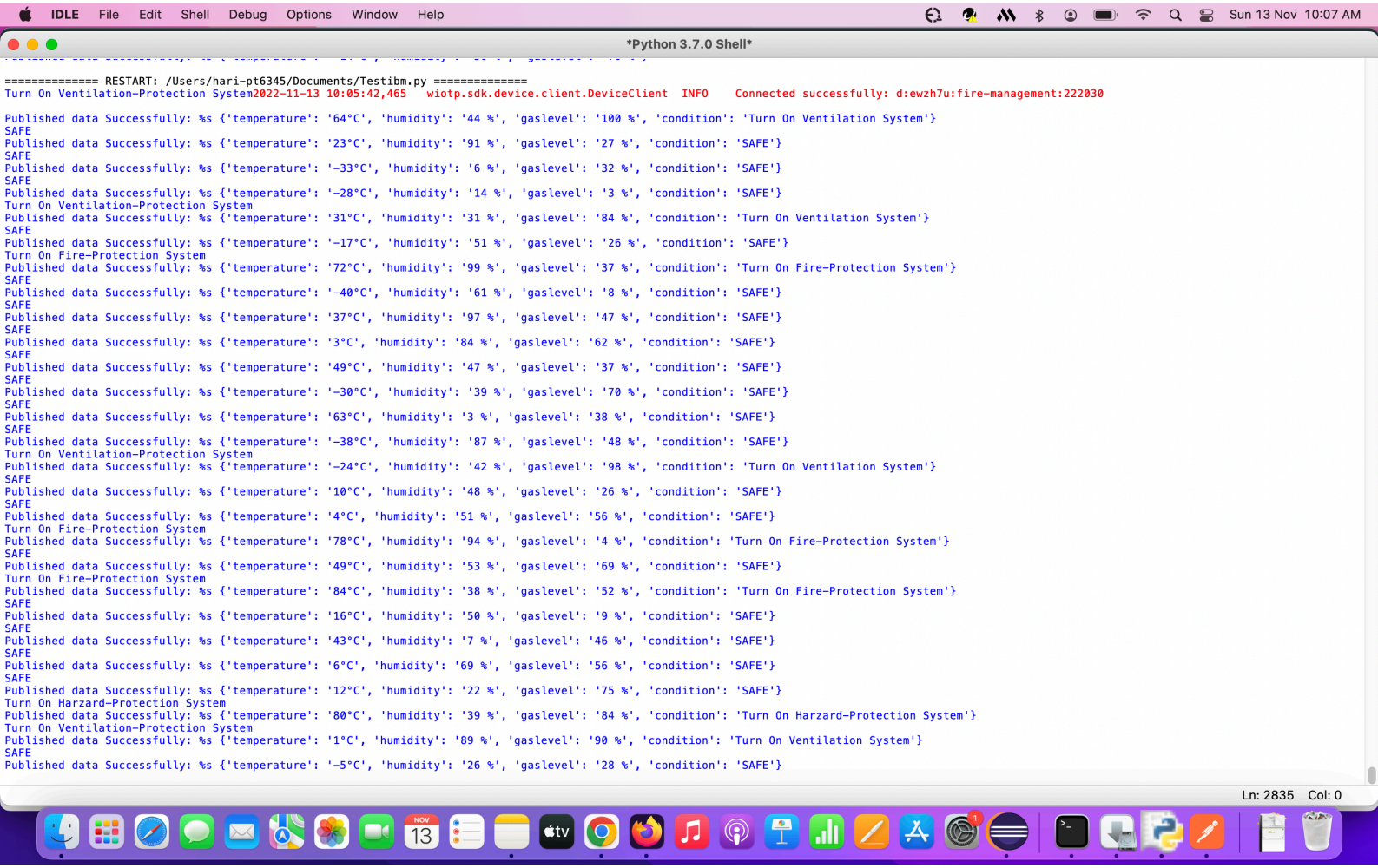
```
        myData={'temperature':str(temp)+chr(176)+"C", 'humidity':str(hum)+" %", 'gaslevel':str(gas)+" %",
'condition':"SAFE" }


        print("SAFE")




    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(4)


client.disconnect()
```


IDLE File Edit Shell Debug Options Window Help
Sun 13 Nov 10:07 AM
*Python 3.7.0 Shell*
========== RESTART: /Users/hari-pt6345/Documents/Testibm.py ==========
Turn On Ventilation-Protection System2022-11-13 10:05:42,465 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:ewzh7u:fire-management:222030
Published data Successfully: %s {'temperature': '64°C', 'humidity': '44 %', 'gaslevel': '100 %', 'condition': 'Turn On Ventilation System'}
SAFE
Published data Successfully: %s {'temperature': '23°C', 'humidity': '91 %', 'gaslevel': '27 %', 'condition': 'SAFE'}
SAFE
Published data Successfully: %s {'temperature': '-33°C', 'humidity': '6 %', 'gaslevel': '32 %', 'condition': 'SAFE'}
SAFE
Published data Successfully: %s {'temperature': '-28°C', 'humidity': '14 %', 'gaslevel': '3 %', 'condition': 'SAFE'}
Turn On Ventilation-Protection System
Published data Successfully: %s {'temperature': '31°C', 'humidity': '31 %', 'gaslevel': '84 %', 'condition': 'Turn On Ventilation System'}
SAFE
Published data Successfully: %s {'temperature': '-17°C', 'humidity': '51 %', 'gaslevel': '26 %', 'condition': 'SAFE'}
Turn On Fire-Protection System
Published data Successfully: %s {'temperature': '72°C', 'humidity': '99 %', 'gaslevel': '37 %', 'condition': 'Turn On Fire-Protection System'}
SAFE
Published data Successfully: %s {'temperature': '-40°C', 'humidity': '61 %', 'gaslevel': '8 %', 'condition': 'SAFE'}
SAFE
Published data Successfully: %s {'temperature': '37°C', 'humidity': '97 %', 'gaslevel': '47 %', 'condition': 'SAFE'}
SAFE
Published data Successfully: %s {'temperature': '3°C', 'humidity': '84 %', 'gaslevel': '62 %', 'condition': 'SAFE'}
SAFE
Published data Successfully: %s {'temperature': '49°C', 'humidity': '47 %', 'gaslevel': '37 %', 'condition': 'SAFE'}
SAFE
Published data Successfully: %s {'temperature': '-30°C', 'humidity': '39 %', 'gaslevel': '70 %', 'condition': 'SAFE'}
SAFE
Published data Successfully: %s {'temperature': '63°C', 'humidity': '3 %', 'gaslevel': '38 %', 'condition': 'SAFE'}
SAFE
Published data Successfully: %s {'temperature': '-38°C', 'humidity': '87 %', 'gaslevel': '48 %', 'condition': 'SAFE'}
Turn On Ventilation-Protection System
Published data Successfully: %s {'temperature': '-24°C', 'humidity': '42 %', 'gaslevel': '98 %', 'condition': 'Turn On Ventilation System'}
SAFE
Published data Successfully: %s {'temperature': '10°C', 'humidity': '48 %', 'gaslevel': '26 %', 'condition': 'SAFE'}
SAFE
Published data Successfully: %s {'temperature': '4°C', 'humidity': '51 %', 'gaslevel': '56 %', 'condition': 'SAFE'}
Turn On Fire-Protection System
Published data Successfully: %s {'temperature': '78°C', 'humidity': '94 %', 'gaslevel': '4 %', 'condition': 'Turn On Fire-Protection System'}
SAFE
Published data Successfully: %s {'temperature': '49°C', 'humidity': '53 %', 'gaslevel': '69 %', 'condition': 'SAFE'}
Turn On Fire-Protection System
Published data Successfully: %s {'temperature': '84°C', 'humidity': '38 %', 'gaslevel': '52 %', 'condition': 'Turn On Fire-Protection System'}
SAFE
Published data Successfully: %s {'temperature': '16°C', 'humidity': '50 %', 'gaslevel': '9 %', 'condition': 'SAFE'}
SAFE
Published data Successfully: %s {'temperature': '43°C', 'humidity': '7 %', 'gaslevel': '46 %', 'condition': 'SAFE'}
SAFE
Published data Successfully: %s {'temperature': '6°C', 'humidity': '69 %', 'gaslevel': '56 %', 'condition': 'SAFE'}
SAFE
Published data Successfully: %s {'temperature': '12°C', 'humidity': '22 %', 'gaslevel': '75 %', 'condition': 'SAFE'}
Turn On Harzard-Protection System
Published data Successfully: %s {'temperature': '80°C', 'humidity': '39 %', 'gaslevel': '84 %', 'condition': 'Turn On Harzard-Protection System'}
Turn On Ventilation-Protection System
Published data Successfully: %s {'temperature': '1°C', 'humidity': '89 %', 'gaslevel': '90 %', 'condition': 'Turn On Ventilation System'}
SAFE
Published data Successfully: %s {'temperature': '-5°C', 'humidity': '26 %', 'gaslevel': '28 %', 'condition': 'SAFE'}
Ln: 2835 Col: 0