Sprint - 4

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)
```

€ 🦠 👭 🕴 💿 🖃 🤝 Q 😭 Sun 13 Nov 10:07 AM *Python 3.7.0 Shell* 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': '-28'C', 'humidity': '14 %', 'gaslevel': '32 %', 'condition': 'SAFE')
Turn On Ventilation-Protection System
Published data Successfully: %s ('temperature': '-28'C', 'humidity': '14 %', 'gaslevel': '34 %', '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': '47 %', 'condition': 'SAFE')
SAFE
Published data Successfully: %s ('temperature': '37'C', 'humidity': '97 %', 'gaslevel': '47 %', 'condition': 'SAFE')
SAFE
Published data Successfully: %s ('temperature': '38'C', 'humidity': '47 %', 'gaslevel': '47 %', 'condition': 'SAFE')
SAFE
Published data Successfully: %s ('temperature': '38'C', 'humidity': '39 %', 'gaslevel': '38 %', 'condition': 'SAFE')
SAFE
Published data Successfully: %s ('temperature': '38'C', 'humidity': '87 %', 'gaslevel': '48 %', 'condition': 'SAFE')
SAFE
Published data Successfully: %s ('temperature': '38'C', 'humidity': '87 %', 'gaslevel': '48 %', 'condition': 'SAFE')
SAFE
Published data Successfully: %s ('temperature': '-24'C', 'humidity': '48 %', 'gaslevel': '48 %', 'condition': 'SAFE')
SAFE
Published data Successfully: %s ('temperature': '24'C', 'humidity': '48 %', 'gaslevel': '56 %', 'condition': 'SAFE')
SAFE
Published data Successfully: %s ('temperature': ' Published data Successfully: %s {'temperature': '64°C', 'humidity': '44 %', 'gaslevel': '100 %', 'condition': 'Turn On Ventilation System'}
SAFE SAFE
Published data Successfully: %s {'temperature': '/8°C', 'numidity': '94 %', 'gaslevel': '4 %', 'condition': 'Turn On Fire-Protection System'}
Full on Fire-Protection System
Published data Successfully: %s {'temperature': '49°C', 'humidity': '53 %', 'gaslevel': '52 %', 'condition': 'Turn On Fire-Protection System'}
SAFE
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': '128', 'humidity': '128', 'daslevel': '56 %', 'condition': 'SAFE'}
Published data Successfully: %s {'temperature': '128', 'temperature': '128', 'temp 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 Varilation-Protection System Turn On Ventilation-Protection System
Published data Successfully: %s {'temperature': '1°C', 'humidity': '39 %', 'gaslevel': '90 %', 'condition': 'Turn On Harzard-Protection 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 🛂 🔡 🕢 🗩 💌 📞 🎨 🖼 📆 📒 💳 🖤 🗿 🚺 🕡 😱 🖺 "ii 💋 🔉 💕 🛑 📔 🖫 違

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