

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)
```

```
client.disconnect()
```

