Python code for gas leakage monitoring and alerting system

PROJECT NAME	GAS LEAKAGE MONITORING & ALERTING SYSTEM FOR INDUSTRIES
TEAM ID	PNT2022TMID27112
BRANCH	ELECTRONICS AND COMMUNICATION ENGINEERING

Python code:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "j389m6",
        "typeId": "Device1",
        "deviceId":"1845"
    },
    "auth": {
        "token": "qdIlHUgQZlnES467LC"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
    if(m=="LIGHTON"):
        print("********///LIGHTS ARE ON///*********")
    elif(m=="LIGHTOFF"):
        print("********///LIGHTS ARE ON///*********")
    else:
        print("********///not found///*********")

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

while True:
    temp=random.randint(0,125)
```

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```
    hum=random.randint(0,100)
    haz=random.randint(0,100)
    pre=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum, 'Hazardousgas':haz, 'pressure':pre}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

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