Gas Leakage Monitoring and Alerting System for Industries

PROJECT NAME	GAS LEAKAGE MONITORING & ALERTING SYSTEM FOR INDUSTRIES
TEAM ID	PNT2022TMID27029
TEAM MEMBERS	1. ABDUL RAZZAQ S 2. AKASH B 3. AMALAN BOSCO A 4. ARISHRAAJ K G
BRANCH	ELECTRONICS AND COMMUNICATION ENGINEERING

PYTHON CODE :

```python
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "8eoyrc",
        "typeId": "Testdevicetype",
        "deviceId":"12345"
    },
    "auth": {
        "token": "SaoaG_v?EC+&WvCW06"
    }
}
```

```python
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
    if(m=="light on"):
        print("***LIGHTS ON**")
    else:
        print("**LIGHTS OFF***")
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
```

PYTHON CODE FOR Gas Leakage Monitoring and Alerting System

```python
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    gas=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum,'hazardousgas':gas}
        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()
```

****