Gas Leakage Monitoring and Alerting System for Industries

PROJECT NAME	GAS LEAKAGE MONITORING & ALERTING SYSTEM FOR INDUSTRIES
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PYTHON CODE :

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
   "identity":  {
      "orgId": "gg2k5f",
      "typeId": "Device_01",
      "deviceId":"Num_01"
   },
   "auth": {
      "token": "pX!FpPNWcRKNwVxXu2"
   }
}
```

```
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

```
    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()
```

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