Date	15th November 2022
Team ID	PNT2022TMID35759
Project Name	Gas Leakage monitoring and alerting System

Python Code:

```python
#pip install wiotp-sdk

import wiotp.sdk.device

import time

import random

myConfig = { "identity": { "orgId": "ohe16k", "typeId": "NODEMCU", "deviceId":"RUBAK1224" },

"auth": { "token": "always1824" } }

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(32,40)

        hum=random.randint(60,80)

        gas=random.randint(500,800)

        pres=random.randint(20,80)

        myData={'temperature':temp, 'humidity':hum, 'gasLevel':gas, 'pressure':pres,
'latitude':13.148760, 'longitude':80.229100}

        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()
```

Publish the Data in IBM Cloud:

| Identity | Device Information | Recent Events | State | Logs |

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"temperature":34,"humidity":68,"gasLevel":558...	json	10 minutes ago
status	{"temperature":37,"humidity":63,"gasLevel":665...	json	10 minutes ago
status	{"temperature":32,"humidity":74,"gasLevel":700...	json	10 minutes ago
status	{"temperature":34,"humidity":75,"gasLevel":718...	json	10 minutes ago
status	{"temperature":32,"humidity":71,"gasLevel":741...	json	10 minutes ago