PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

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Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

PYTHON CODE

```python
#IBM Watson IOT Platform
import wiotp.sdk.device
import time
import random
myConfig = {
"identity": {
     "orgId": "yf0dyy ",
     "typeId": "Faraaz ",
     "deviceId":"12345"
},
"auth": {
     "token": "VJTDPRX@f&4Vuox8ms "
}
  }
  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()
```

```python
    while                        True:
        gas=random.randint(0,100)
    temp=random.randint(0,100)
    hum=random.randint(0,100)
    pre=random.randint(0,100)
    myData={'Hazardous Gas':gas, 'Temperature':temp, 'Humidity':hum,
    'Pressure':pre }
    client.publishEvent(eventId="status", msgFormat="json",
    data=myData,qos=0, onPublish=None)
    print("Published    data    Successfully:    %s",
    myData)          client.commandCallback         =
    myCommandCallbacktime.sleep(2)
client.disconnect()
```

OUTPUT:

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

Event	Value	Format	Last Receive
event_1	{"Hazardous Gas":57,"Temperature":98,"Humidit...	json	a few seco...
event_1	{"Hazardous Gas":3,"Temperature":35,"Humidity...	json	a few seco...
event_1	{"Hazardous Gas":69,"Temperature":74,"Humidit...	json	a few seco...
event_1	{"Hazardous Gas":85,"Temperature":51,"Humidit...	json	a few seco...
event_1	{"Hazardous Gas":92,"Temperature":35,"Humidit...	json	a few seco...

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Events 1

New event type ⊕

⌄ Event type name   event_1   Send 🗑

Schedule

20   Every Minute   ▾

Payload

Specify the event payload in the editor window or by uploading a CSV file.

```
0  {
1      "Hazardous Gas": random(0, 100),
2      "Temperature": random(0, 100),
3      "Humidity": random(0, 100),
4      "Pressure": random(0, 100)
5  }
6
```

Cancel   Save