

PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	17 NOVEMBER 2022
Team ID	PNT2022TMID16813
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

PYTHON CODE

```
#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()
```

```

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 screenshot shows the Azure IoT Hub console interface. The 'Recent Events' tab is selected, displaying a table of events. The table has four columns: Event, Value, Format, and Last Received. There are five rows of event data, each representing a status update with gas, temperature, humidity, and pressure values. The 'Last Received' column indicates that all events were received 'a few seconds ago'. An 'Activate Windows' watermark is visible in the bottom right corner of the screenshot.

Event	Value	Format	Last Received
event_1	["Hazardous Gas":61,"Temperature":88,"Humidit...	json	a few seconds ago
event_1	["Hazardous Gas":20,"Temperature":36,"Humidit...	json	a few seconds ago
event_1	["Hazardous Gas":79,"Temperature":56,"Humidit...	json	a few seconds ago
event_1	["Hazardous Gas":52,"Temperature":82,"Humidit...	json	a few seconds ago
event_1	["Hazardous Gas":26,"Temperature":33,"Humidit...	json	a few seconds ago



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 secoo
event_1	["Hazardous Gas":3,"Temperature":35,"Humidity...	json	a few secoo
event_1	["Hazardous Gas":49,"Temperature":74,"Humidit...	json	a few secoo
event_1	["Hazardous Gas":85,"Temperature":51,"Humidit...	json	a few secoo
event_1	["Hazardous Gas":92,"Temperature":35,"Humidit...	json	a few secoo

Items per page: 50 | 1-1 of 1 item

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.

```
[{"Hazardous Gas": random(0, 100), "Temperature": random(0, 100), "Humidity": random(0, 100), "Pressure": random(0, 100)}]
```

Cancel Save

Go to Settings to edit the Windows