

PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

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Team ID	PNT2022TMID05953
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 =
myCommandCallback time.sleep(2)
client.disconnect()

```

OUTPUT:

The screenshot displays a web application interface for managing IoT devices. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various functions. The main content area shows details for a device with ID '12345', status 'Disconnected', and name 'Nagarajan'. Below this, a tabbed interface shows 'Recent Events' with a table of data.

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

At the bottom of the interface, it indicates '1 Simulation running' and includes a Windows activation watermark.



[Browse](#) [Action](#) [Device Types](#) [Interfaces](#)

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
event_1	{"Hazardous Gas":57,"Temperature":98,"Humidity":...	json	a few seconds ago
event_1	{"Hazardous Gas":3,"Temperature":35,"Humidity":...	json	a few seconds ago
event_1	{"Hazardous Gas":69,"Temperature":74,"Humidity":...	json	a few seconds ago
event_1	{"Hazardous Gas":85,"Temperature":51,"Humidity":...	json	a few seconds ago
event_1	{"Hazardous Gas":92,"Temperature":35,"Humidity":...	json	a few seconds ago

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

Device Type: Nagarajan

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

Activate Windows

Go to Settings to activate Windows