

PYTHON CODE (GAS, TEMPERATURE, HUMIDITY,PRESSURE)

Date	15 NOVEMBER 2022
Team ID	PNT2022TMID19526
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM

PYTHON CODE

```
import random

print('Hazardous

Gas

Level=',str(random.randint(0,100)))

print('Temperature=',str(random.randint(0,100)))

print('Humidity=',str(random.randint(0,100)))

print('Pressure=',str(random.randint(0,100)))
```

OUTPUT:

The screenshot displays a web application interface for device monitoring. At the top, there are tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces', along with an 'Add Device' button. The main content area shows a table with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. A device with ID 12345 is selected, showing a status of 'Disconnected' and a device type of 'sairaj'. Below this, there are tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, displaying a list of events with columns: Event, Value, Format, and Last Received. The events are JSON strings containing gas, temperature, and humidity data. At the bottom right, a status indicator shows '1 Simulation running'.

Event	Value	Format	Last Received
event_2	{"Hazardous gas":34,"Temperature":42,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":49,"Temperature":18,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":57,"Temperature":34,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":45,"Temperature":75,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":14,"Temperature":36,"Humidit...	json	a few seconds ago

BrowseActionDevice TypesInterfaces

Browse Devices

All DevicesDiagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID
> <input type="checkbox"/>	12345	<input type="checkbox"/> Disconnected	sairaj	Device
> <input type="checkbox"/>	ultrasonic_sensor	<input type="checkbox"/> Disconnected	ESP32_controller	Device

Items per page 50 | 1-2 of 2 items

Device Type: sairaj

Events 1New event type +

Event type nameevent_2Send

Schedule

60Every 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 }

Upload a CSV file

CancelSave