

PYTHON CODE

Date	18 NOVEMBER 2022
Team ID	PNT2022TMID27861
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM

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 management. At the top, there are tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces', along with an 'Add Device' button. Below these is a table listing devices. The selected device is '12345', with status 'Disconnected', device type 'sairaj', class ID 'Device', and date added '12 Nov 2022 11:07 PM'. A dropdown menu is open for this device, showing tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, displaying a table of events. The table has columns for 'Event', 'Value', 'Format', and 'Last Received'. The events are listed as 'event_2' with various JSON values, all in 'json' format, and received 'a few seconds ago'. 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

	Device ID	Status	Device Type	Class ID
>	12345	Disconnected	sairaj	Device
>	ultrasonic_sensor	Disconnected	ESP32_controller	Device

Items per page: 50 | 1-2 of 2 items

Device Type: sairaj

Events1New event type

Event type nameevent_2Send

Schedule60Every Minute

PayloadSpecify 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