

PYTHON CODE

| | |
|--------------|---|
| Date | 14 NOVEMBER 2022 |
| Team ID | PNT2022TMID14187 |
| Project Name | GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES |

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)))
```

 pythoncde.py - C:/Users/kotur/AppData/Local/Programs/Python/Python311/pythoncde.py (3.11.0)

File Edit Format Run Options Window Help

```
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:

IDLE Shell 3.11.0

File Edit Shell Debug Options Window Help

Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>

```
= RESTART: C:/Users/kotur/AppData/Local/Programs/Python/Python311/python.exe =
```

```
Hazardous gas Level= 4
```

```
Temperature= 45
```

```
Humidity= 26
```

```
Pressure= 50
```

>>>

The screenshot shows a web application interface with a sidebar on the left and a main content area. The sidebar has tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area is divided into two sections. The left section displays a table of devices, and the right section shows a configuration modal for a selected device.

| Device ID | Status | Device Type | Class ID |
|-----------|--------------|-------------|----------|
| 12345 | Disconnected | Node_1 | Device |

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

| Event | Value | Format |
|--------|-----------------------------------|--------|
| status | {"temperature":70,"humidity":32} | json |
| status | {"temperature":107,"humidity":84} | json |
| status | {"temperature":77,"humidity":16} | json |
| status | {"temperature":10,"humidity":24} | json |
| status | {"temperature":30,"humidity":52} | json |

Device Type: Node_1

Events: 1

Event type name: event_1

Schedule: 60 Every Minute

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

```
{
  "Hazardous gas Level": random(0, 100),
  "Temperature": random(0, 100),
  "Humidity": random(0, 100),
  "PRESSURE": random(0, 100)
}
```

