

PYTHON CODE

Date	15 NOVEMBER 2022
Team ID	PNT2022TMID14261
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 top section is a table with columns: 'Device ID', 'Status', 'Device Type', and 'Class ID'. It contains one row with '12345', 'Disconnected', 'Node_1', and 'Device'. Below this is a 'Recent Events' section with a table showing a live stream of data. The table has columns 'Event', 'Value', and 'Format'. It lists five status events with JSON payloads for temperature and humidity. The bottom section is a modal window titled 'Device Type: Node_1'. It has a 'New event type' button and a 'Send' button. The 'Event type name' is 'event_1'. The 'Schedule' is set to '60' and 'Every Minute'. The 'Payload' section shows a JSON object with four fields: 'Hazardous gas Level', 'Temperature', 'Humidity', and 'PRESSURE', each with a 'random(0, 100)' value. The modal has 'Cancel' and 'Save' buttons at the bottom.

Device ID	Status	Device Type	Class ID
12345	Disconnected	Node_1	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.

```
{  
  0 {  
    1 "Hazardous gas Level": random(0, 100),  
    2 "Temperature": random(0, 100),  
    3 "Humidity": random(0, 100),  
    4 "PRESSURE": random(0, 100),  
    5 }  
  6 }
```

Cancel Save

