

PYTHON CODE

Date	14 NOVEMBER 2022
Team ID	PNT2022TMID14284
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 events, all with 'status' as the event type and 'json' as the format. The values are JSON objects containing temperature and humidity data. 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 contains a JSON object with four fields: 'Hazardous gas Level', 'Temperature', 'Humidity', and 'PRESSURE', each with a 'random(0, 100)' value. The modal window 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

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

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:  
}
```

