

## PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	9 NOVEMBER 2022
Team ID	PNT2022TMID01775
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

### 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 Windows desktop environment. On the left, a code editor window titled 'python code.py - E:\python\python code.py (3.9.8)' contains the following 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)))
```

On the right, an 'IDLE Shell 3.9.8' window shows the output of the code execution:

```
Python 3.9.8 (tags/v3.9.8:bb3fcdcf, Nov 5 2021, 20:48:33) [MSC v.1929 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: E:\python\python code.py =====  
Hazardous Gas Level= 46  
Temperature= 31  
Humidity= 74  
Pressure= 96  
>>> |
```

The Windows taskbar at the bottom shows the system clock as 21:40 on 31-10-2022, and the weather as 25°C, Partly cloudy.

Browse
Action
Device Types
Interfaces

---

Identity
Device Information
Recent Events
State
Logs

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

Event	Value	Format	Last Receive
event_1	{"Hazardous Gas":57,"Temperature":98,"Humidit...	json	a few secor
event_1	{"Hazardous Gas":3,"Temperature":35,"Humidity...	json	a few secor
event_1	{"Hazardous Gas":69,"Temperature":74,"Humidit...	json	a few secor
event_1	{"Hazardous Gas":85,"Temperature":51,"Humidit...	json	a few secor
event_1	{"Hazardous Gas":92,"Temperature":35,"Humidit...	json	a few secor

Items per page 50
▼ | 1–1 of 1 item

<
Device Type: Nagarajan
>

Events 1
New event type +

▼ Event type name


Send

Schedule

Every 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 }
6
                    
```

Cancel

Save

Activate Windows  
Go to Settings to activate Windows.