

## Gas Leakage monitoring & Alerting system for Industries

|                     |   |
|---------------------|---|
| <b>Date</b>         | 5 November 2022   |
| <b>Team ID</b>      | PNT2022TMID12258  |
| <b>Project Name</b> | 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 image shows a screenshot of a Python IDE with two windows. The left window displays the source code for a gas monitoring system. The right window shows the output of the code after execution. The code imports the random module and prints four random values for Hazardous Gas Level, Temperature, Humidity, and Pressure. The output shows the results of these randomizations: Hazardous Gas Level= 46, Temperature= 31, Humidity= 74, and Pressure= 96.

```
python code.py - E:\python\python code.py (3.9.8)
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)))

IDLE Shell 3.9.8
File Edit Shell Debug Options Window Help
Python 3.9.8 (tags/v3.9.8:bb3fddf, 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
>>> |
```

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Browse Action Device Types Interfaces

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

| Event     | Value   | Format | Last Received     |
|-----------|---|--------|-------------------|
| eventflow | {"Gas":87,"temperature":12,"humidity":65,"pres... | json   | a few seconds ago |
| eventflow | {"Gas":79,"temperature":89,"humidity":11,"pres... | json   | a few seconds ago |
| eventflow | {"Gas":58,"temperature":10,"humidity":86,"pres... | json   | a few seconds ago |
| eventflow | {"Gas":58,"temperature":13,"humidity":59,"pres... | json   | a minute ago      |
| eventflow | {"Gas":20,"temperature":47,"humidity":49,"pres... | json   | a minute ago      |

1 Simulation running

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The recent events listed show the live stream of data that is coming and going

| Event     | Value   |
|-----------|---|
| eventflow | {"Gas":79,"temperature":89,"humidity":11,"pres... |
| eventflow | {"Gas":58,"temperature":10,"humidity":86,"pres... |
| eventflow | {"Gas":58,"temperature":13,"humidity":59,"pres... |
| eventflow | {"Gas":20,"temperature":47,"humidity":49,"pres... |

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Device Type: Amigos

Event type name eventflow Send

Schedule 1 Every Minute

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

```
0 {  
1   "Gas": random(0, 100)  
2   "temperature": random(0, 100)  
3   "humidity": random(0, 100)  
4   "pressure": random(0, 100)  
5 }  
6
```

Cancel Save

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