

PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	3 NOVEMBER 2022
Team ID	PNT2022TMID36136
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

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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, titled 'VR.py - C:/Users/NITHISH KUMAR V R/Downloads/VR.py (3.7.0)', 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)))
```

The right window, titled 'Python 3.7.0 Shell', shows the output of the script after execution:

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/NITHISH KUMAR V R/Downloads/VR.py =====
Hazardous Gas Level= 66
Temperature= 78
Humidity= 1
Pressure= 30
>>>
```

The status bar at the bottom indicates 'Page 1 of 2' on the left and 'Ln: 11 Col: 31' on the right. The zoom level is set to 100%.

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BrowseActionDevice TypesInterfaces

Add Device

Search by Device ID

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
123456	Disconnected	Gasleakage	Device	Nov 19, 2022 11:15 AM	

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 Received
event_1	{"HUMIDITY":3,"pressure":18,"HazardousGaslev...	json	a few seconds ago
event_1	{"HUMIDITY":16,"pressure":96,"HazardousGasle...	json	a few seconds ago
event_1	{"HUMIDITY":80,"pressure":36,"HazardousGasle...	json	a few seconds ago
event_1	{"HUMIDITY":14,"pressure":66,"HazardousGasle...	json	a few seconds ago
event_1	{"HUMIDITY":46,"pressure":9,"HazardousGaslev...	json	a few seconds ago

Simulations

Import/Export simulation

1/50 Simulations Running

New Simulation

Device TypeGasleakage

1 Event

1 Device

123456

1 x

Create Simulated Device

Use Registered Device

307 events sent

21.29 KB sent