

PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Team ID	PNT2022TMID18536
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

PYTHON CODE:

```
import random

print('Random number =',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:

A screenshot of a Python IDE window titled 'temp1.py - D:/temp1.py (3.10.2)'. The left pane shows the following 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 pane, titled 'IDLE Shell 3.10.2', shows the output of the code execution:

```
>>>
===== RESTART: D:/temp1.py =====
Hazardous Gas Level= 93
Temperature= 93
Humidity= 69
Pressure= 36
>>>
```

IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

This table shows a summary of all devices that have been added. It can be filtered by various criteria. To get started, you can add devices by using the Add Device button, or by using the Add Device button, or by using the Add Device button.

Search by Device ID

Device ID

Status

Device Type

1234

Disconnected

GASLEAKAGE

Identity

Device Information

Recent Events

You can enter more information about the device for identification.

Serial Number

Manufacturer

Device Type: GASLEAKAGE

Events 1

New event type +

Event type name

event_1

Send

Schedule

20

Every Minute

Payload

Specify the event payload in the editor window or by uploading a [CSV file](#).

0 {

1 "randomNumber": random(0, 100),

2 "temp": random(10, 88),

3 "hum": random(80, 100)

4 }

5

Upload a CSV file

Manufacturer

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Action

Device Types

Interfaces

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

Event	Value
po1	{"randomNumber":6,"temp":87,"hum":90}
po1	{"randomNumber":31,"temp":22,"hum":84}
po1	{"randomNumber":45,"temp":10,"hum":98}
po1	{"randomNumber":5,"temp":26,"hum":85}
po1	{"randomNumber":76,"temp":56,"hum":95}

Items per page 50

1-1 of 1 item

Simulations

[Import/Export simulation](#)

1/50 Simulations Running

Select or create a device type...

Device Type

GASLEAKAGE

1 Event

1 Device

1234

1 x

Create Simulated Device

Use Registered Device

