

# PYTHON CODE

Team ID	PNT2022TMID31143
Project Name	Gas Leakage monitoring & 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 shows a Windows desktop environment. In the center, there is a window titled "IDLE Shell 3.9.8" which is a Python interactive shell. The shell displays the following output:

```
python code.py - E:\python\python code.py (3.9.8)
File Edit Shell Debug 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)))
=====
Hazardous Gas Level= 46
Temperature= 31
Humidity= 74
Pressure= 96
>>> |
```

Below the IDLE window, the taskbar is visible with various icons for common applications like File Explorer, Edge browser, Mail, and others. The system tray shows the date (31-10-2022), time (21:40), battery level, and network status.

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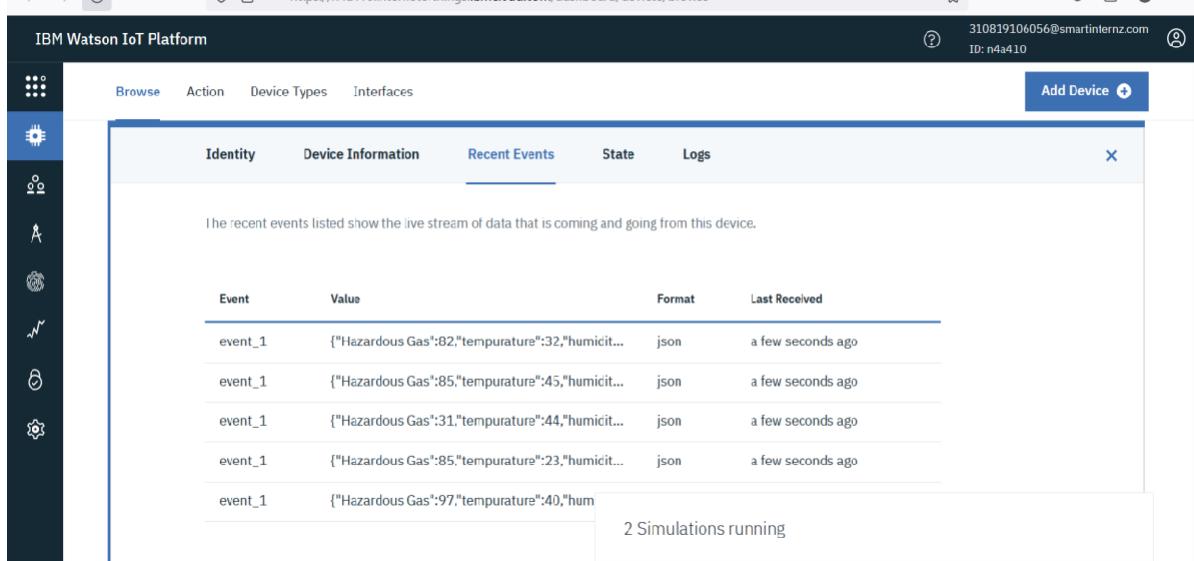
Browse Action Device Types Interfaces Add Device

Identity Device Information Recent Events State Logs X

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	{"Hazardous Gas":82,"tempurature":32,"humicid...}	json	a few seconds ago
event_1	{"Hazardous Gas":85,"tempurature":45,"humicid...}	json	a few seconds ago
event_1	{"Hazardous Gas":31,"tempurature":44,"humicid...}	json	a few seconds ago
event_1	{"Hazardous Gas":85,"tempurature":23,"humicid...}	json	a few seconds ago
event_1	{"Hazardous Gas":97,"tempurature":40,"humicid...}	json	

2 Simulations running



← → 🔍 https://n4a410.internetofthings.ibmcloud.com/dashboard/devices/browse ⚡

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Device Type: TestDeviceType

Events 1 New event type +

Event type name: event\_1 Send

Schedule: 60 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   "tempurature":random(10,50),  
3   "humidity":random(0,100),  
4   "Pressure":random(0,100)  
5 }
```

