

PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	3 NOVEMBER 2022
Team ID	PNT2022TMID15087
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 shows a Windows desktop environment. In the foreground, a code editor window titled 'python code.py' is open, displaying 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)))
```

Below the code editor, a command prompt window is open, showing the output of the script:

```
python code.py  
Hazardous Gas Level= 86  
Temperature= 33  
Humidity= 78  
Pressure= 96
```

The Windows taskbar at the bottom shows the time as 11:49 on 11/03/2022, and the system tray indicates 25°C, Partly cloudy.

IBM Watson IoT Platform

Device: 123, Status: Disconnected, Device Type: Railberry, Last Received: Nov 18, 2022 10:25 PM

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	{"Hazardous Gas":61,"Temperature":10,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":27,"Temperature":61,"Humidit...	json	a minute ago
event_1	{"Hazardous Gas":81,"Temperature":50,"Humidit...	json	2 minutes ago
event_1	{"Hazardous Gas":91,"Temperature":17,"Humidit...	json	3 minutes ago
event_1	{"Hazardous Gas":14,"Temperature":90,"Humidit...	json	4 minutes ago

1 Simulation running

IBM Watson IoT Platform

Device Type: Nagarajan

Events | New event type

Event type name: event_1

Schedule: 20 Every Minute

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

```

1 {
2   "Hazardous Gas": random(0, 100)
3   "Temperature": random(0, 100)
4   "Humidity": random(0, 100)
5   "Pressure": random(0, 100)
6 }

```

Cancel Save