

# PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Team ID	PNT2022TMID49412
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

## PYTHON CODE

```
import random
```

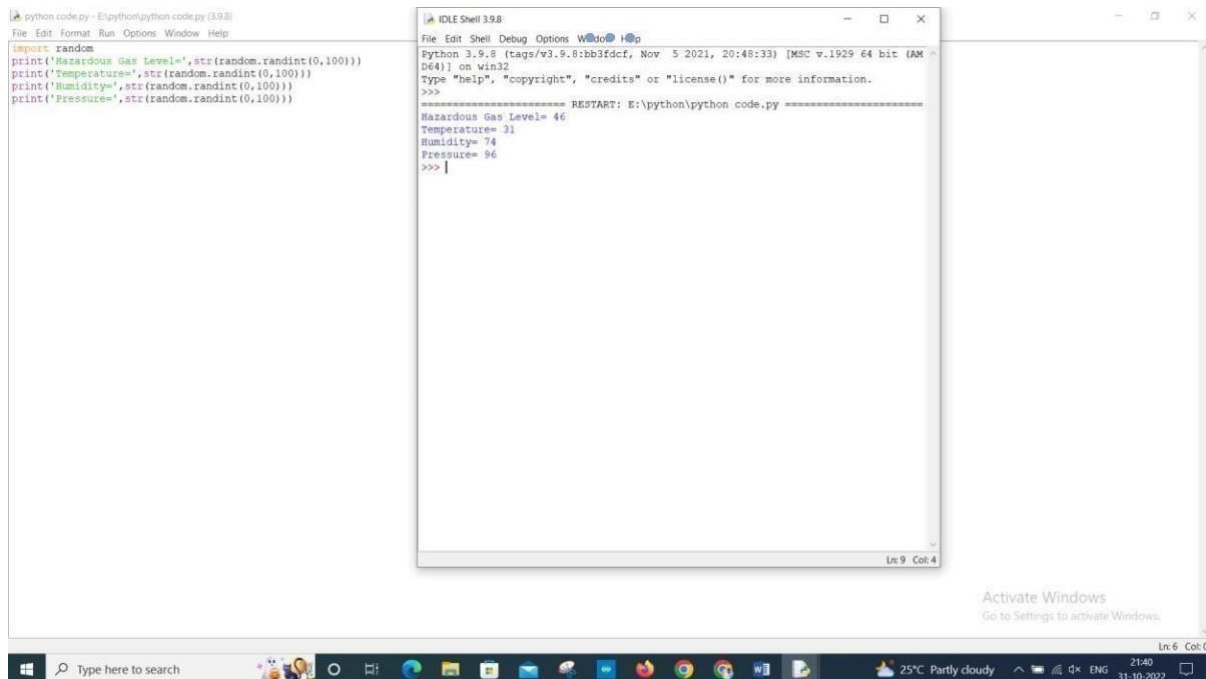
```
print('Hazardous Gas Level=',str(random.randint(0,100)))
```

```
print('Temperature=',str(random.randint(0,100)))
```

```
print('Humidity=',str(random.randint(0,100)))
```

```
print('pressure=',str(random.randint(0,100)))
```

## OUTPUT:



The screenshot displays a Python IDE with two windows. The left window shows the source code for a program that generates random values for hazardous gas level, temperature, humidity, and pressure. The right window shows the output of the program, which has been restarted, displaying the following values: Hazardous Gas Level= 46, Temperature= 31, Humidity= 74, and Pressure= 96. The Windows taskbar at the bottom shows the system clock as 21:40 on 31-10-2022, with a weather forecast of 25°C Partly cloudy.

```
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:bb3fddcf, 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
>>> |
```

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

Add Device +

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_2	{"Hazardous gas":64,"Temperature":23,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":60,"Temperature":60,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":85,"Temperature":73,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":72,"Temperature":66,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":98,"Temperature":32,"Humidit...	json	a few seconds ago

Items per page 50 | 1-2 of 2 items

1 Simulation running

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Device Type: ESP32\_controller

Events 1

New event type +

Event type name event\_2 Send

Schedule

50 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   "Temperature": random(0, 100)
3   "Humidity": random(0, 100)
4   "Pressure": random(0, 100)
5 }
6

```

Cancel Save

