

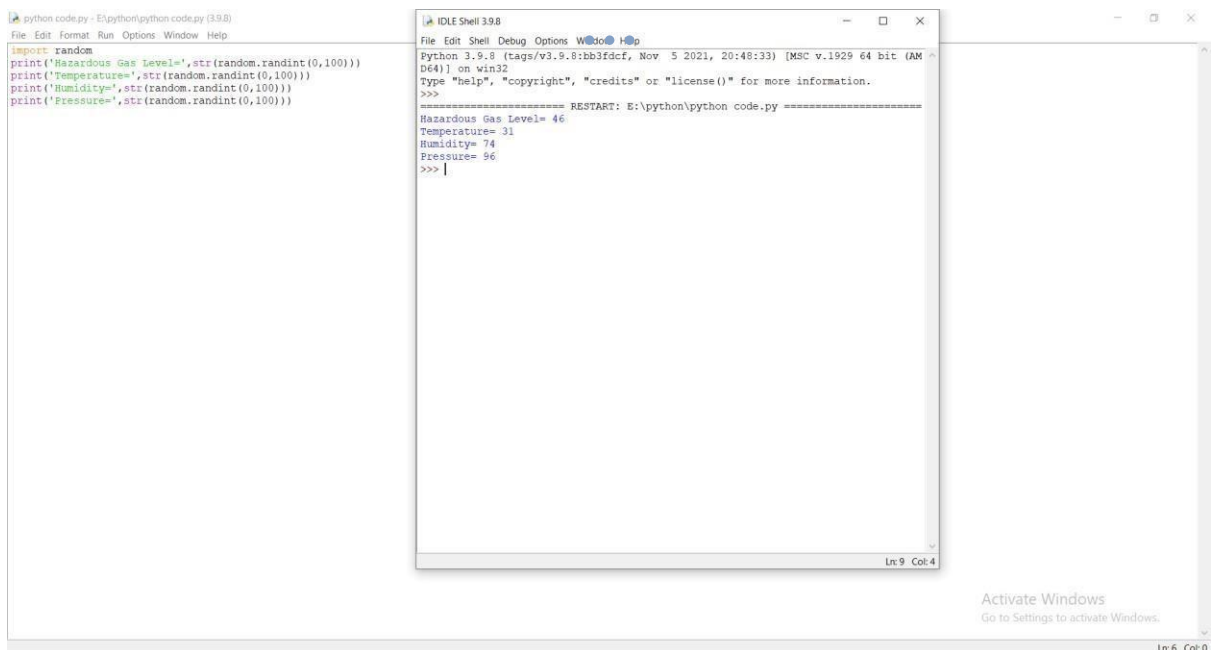
## PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	18 NOVEMBER 2022
Team ID	PNT2022TMID14037
Project Name	<b>GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES</b>

### 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 two windows from a Python IDE. The left window, titled 'python code.py - E:\python\python code.py (3.9.8)', contains 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 window, titled 'IDLE Shell 3.9.8', shows the output of the code execution:

```
Python 3.9.8 (tags/v3.9.8:bb3fcdcf, 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  
>>> |
```

An 'Activate Windows' watermark is visible in the bottom right corner of the IDE window.

**Browse**   Action   Device Types   Interfaces

**Add Device**

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	Nagarajan	Device	Oct 31, 2022 11:38 AM	

→ ...

**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":61,"Temperature":88,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":20,"Temperature":36,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":79,"Temperature":56,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":52,"Temperature":82,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":26,"Temperature":33,"Humidit...	json	a few seconds ago

1 Simulation running

Activate Windows  
Go to Settings to activate Windows.

Browse
Action
Device Types
Interfaces

---

**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":57,"Temperature":98,"Humidity":...}	json	a few seconds ago
event_1	{"Hazardous Gas":3,"Temperature":35,"Humidity":...}	json	a few seconds ago
event_1	{"Hazardous Gas":69,"Temperature":74,"Humidity":...}	json	a few seconds ago
event_1	{"Hazardous Gas":85,"Temperature":51,"Humidity":...}	json	a few seconds ago
event_1	{"Hazardous Gas":92,"Temperature":35,"Humidity":...}	json	a few seconds ago

Items per page 50 | 1–1 of 1 item

<
Device Type: Nagarajan
>

**Events 1** New event type +

Send
✕

Schedule

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