

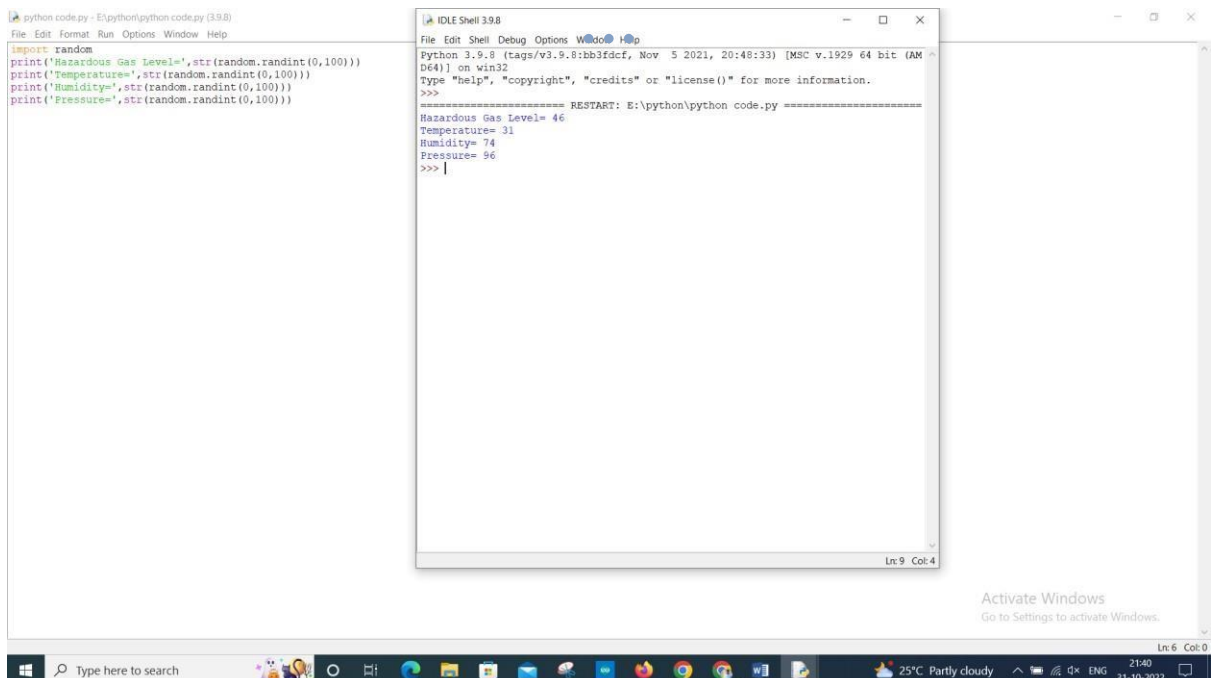
## PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	14 NOVEMBER 2022
Team ID	PNT2022TMID16859
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM
Team Members	J . JEBA KIRUBA S.B. JAYASHREE KRISHNA M.DURGA R.JAWAHAR JAREENA

### 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 two windows from the IDLE 3.9.8 Python environment. The left window displays the source code for a Python script named 'python code.py'. The code imports the 'random' module and prints four random values between 0 and 100, each associated with a specific environmental parameter. The right window shows the output of the script after execution. The output displays the generated values: Hazardous Gas Level= 46, Temperature= 31, Humidity= 74, and Pressure= 96. The Windows taskbar at the bottom shows the date as 31-10-2022 and the time as 21:40.

```
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: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  
>>> |
```

IBM Watson IoT Platform

nagarajan2002s@psnacet.edu.in  
ID: zurssx

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

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.

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ID: zurssx

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,"Humidit...	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,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":85,"Temperature":51,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":92,"Temperature":35,"Humidit...	json	a few seconds ago

Items per page 50 | 1-1 of 1 item

Device Type: Nagarajan

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

```

Cancel Save

Activate Windows

Go to Settings to activate Windows.