

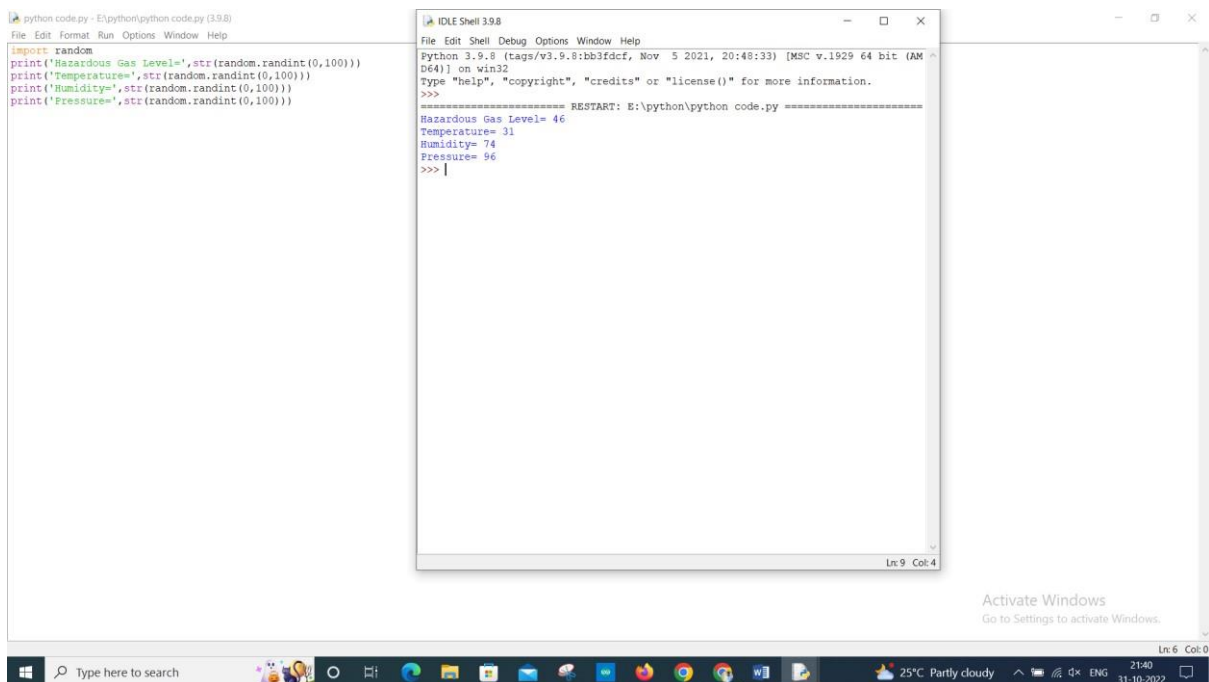
PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	31 November 2022
Team ID	PNT2022TMID05376
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 two windows from the IDLE 3.9.8 environment. The left window displays the Python code, and the right window shows the output of the code execution.

Code Window:

```
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)))
```

Shell Window:

```
IDLE Shell 3.9.8  
File Edit Shell Debug Options Window Help  
Python 3.9.8 (tags/v3.9.8:bb3fdec, 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  
>>> |
```

The output shows the execution of the code, displaying the generated values for Hazardous Gas Level (46), Temperature (31), Humidity (74), and Pressure (96).

IBM Watson IoT Platform

310819106044@smartinternz.com

ID: yf0dy

Browse

Action

Device Types

Interfaces

Add Device

12345

Disconnected

Kumaran

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":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

1 Simulation running

Activate Windows

Go to Settings to activate Windows.

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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: Kumaran

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