

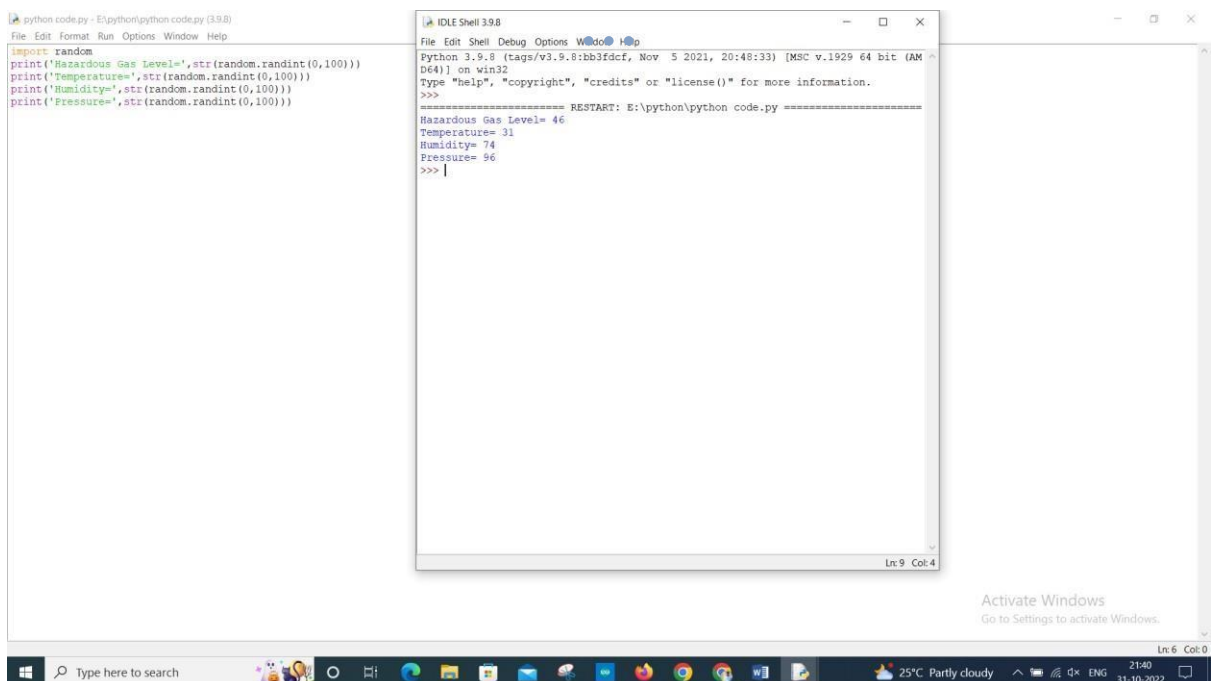
# PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	28 OCTOBER 2022
Team ID	PNT2022TMID07177
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

## PYTHON CODE

```
import random  
  
print('Random number =',str(random.randint(0,100)))  
  
print('Temperature=',str(random.randint(0,100)))  
  
print('Humidity=',str(random.randint(0,100)))
```

## OUTPUT:



The screenshot displays a Windows desktop environment. On the left, a window titled 'python code.py - E:\python\python code.py (3.9.8)' shows a Python script. The script imports the 'random' module and prints four random values: 'Hazardous Gas Level', 'Temperature', 'Humidity', and 'Pressure'. On the right, an 'IDLE Shell 3.9.8' window shows the output of the script. The output indicates a restart of the script, followed by the printed values: 'Hazardous Gas Level= 46', 'Temperature= 31', 'Humidity= 74', and 'Pressure= 96'. The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right indicates a temperature of 25°C, partly cloudy weather, and the date 31-10-2022.

```
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

130719106304@smartinternz.com  
ID: 1bj25c

Event Payload

Event Name: event\_1  
Time Received: Nov 2, 2022 3:07 PM

```
1 {  
2   "randomNumber": 67,  
3   "temp": 57,  
4   "hum": 92  
5 }
```

Device Simulator

1 Simulation running

26°C Rain to stop

IBM Watson IoT Platform

130719106304@smartinternz.com  
ID: 1bj25c

Device ID: 12345\_1  
Status: Connected  
Device Type: 12345  
Class ID: Device  
Date Added: Nov 2, 2022 3:06 PM

Recent Events

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	{"randomNumber":98,"temp":45,"hum":85}	json	a few seconds ago
event_1	{"randomNumber":80,"temp":47,"hum":95}	json	a few seconds ago
event_1	{"randomNumber":42,"temp":67,"hum":91}	json	a few seconds ago
event_1	{"randomNumber":95,"temp":43,"hum":86}	json	a few seconds ago
event_1	{"randomNumber":74,"temp":50,"hum":91}	json	a few seconds ago

1 Simulation running

26°C Rain to stop

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