

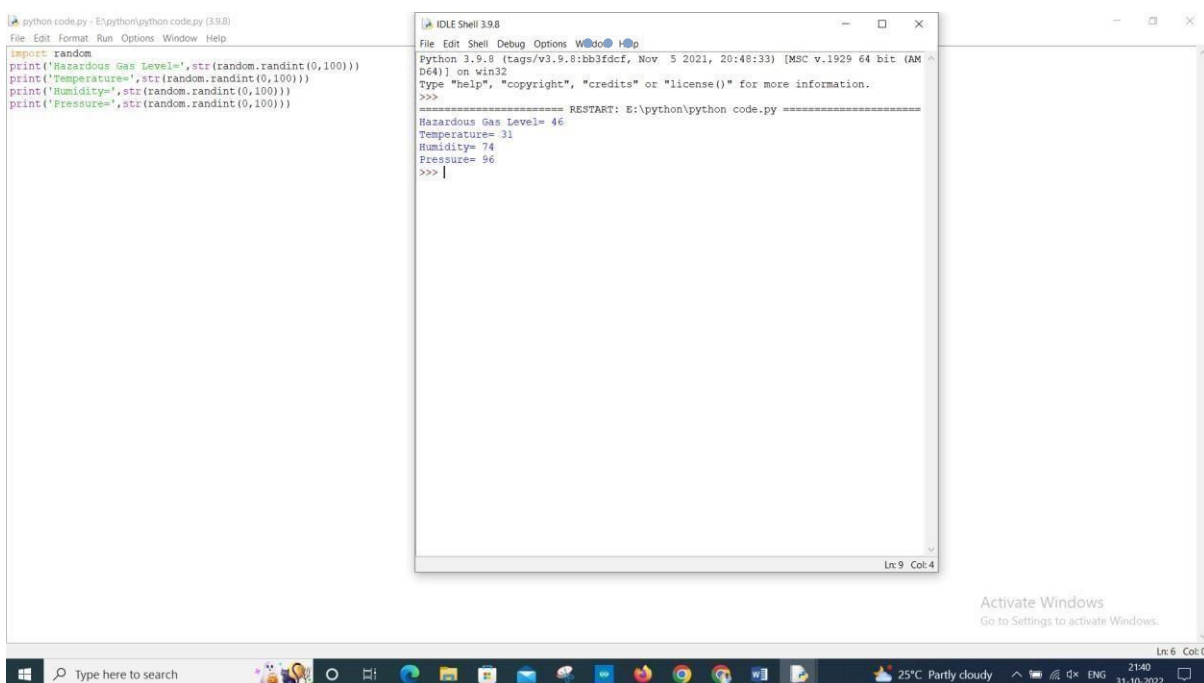
# PYTHON CODE (GAS, TEMPERATURE,HUMIDITY, PRESSURE)

Date	16st November 2022
Team ID	PNT2022TMID12845
Project Name	Gas Leakage Monitoring and Alerting System
Maximum Mark	4 marks

## 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 text editor window titled 'python code.py - E:\python\python code.py (3.9.8)' contains the following 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)))
```

On the right, a command prompt window titled 'IDLE Shell 3.9.8' shows the output of the script after execution:

```
Python 3.9.8 (tags/v3.9.8:bb3fddf, 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 Windows taskbar at the bottom shows the system clock as 21:40 on 31-10-2022, with a weather widget indicating 25°C and 'Partly cloudy'.

IBM Watson IoT Platform

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ID: 1bj25c

Browse Action Device Types

Search by Device ID

Device ID

12345\_1

Identity Device

The recent events listed

Event Value

event\_1 [{"randomNumber": 67, "temp": 57, "hum": 92}]

event\_1 [{"randomNumber": 23, "temp": 44, "hum": 84}]

1.5 Simulation running

26°C Rain to stop

Event Payload

Event Name event\_1

Time Received Nov 2, 2022 3:07 PM

```

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

```

Device Simulator

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

Device ID Status Device Type Class ID Date Added

12345\_1 Connected 12345 Device Nov 2, 2022 3:06 PM

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	{"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