

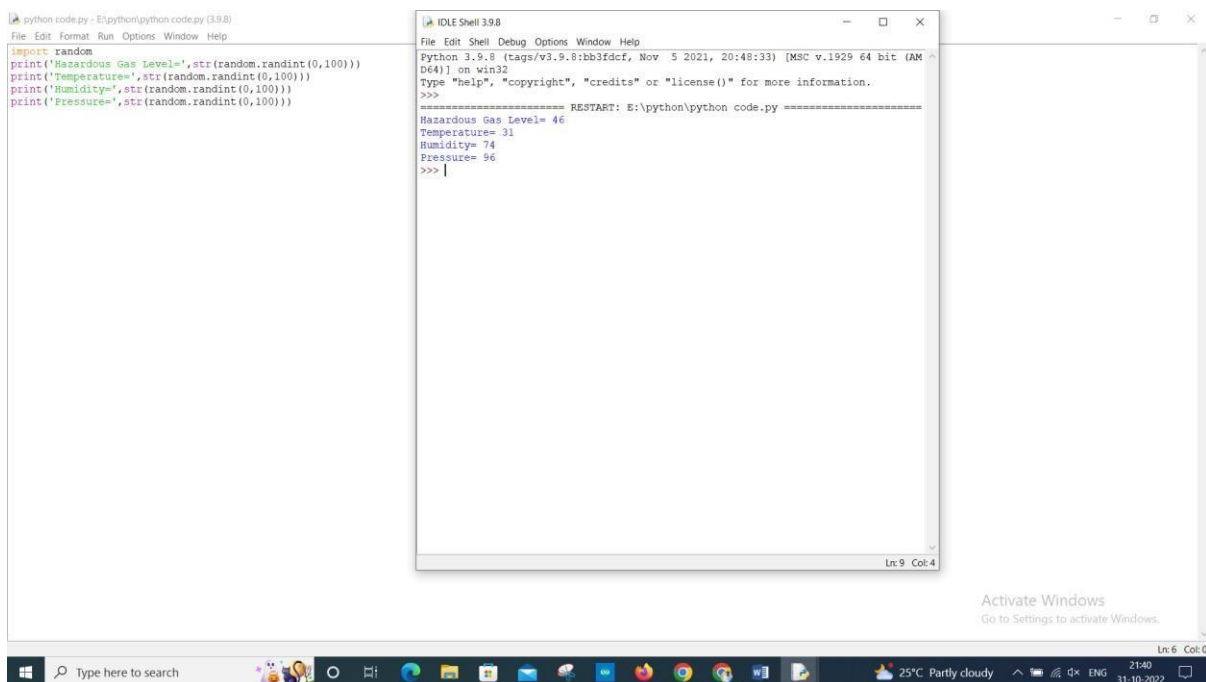
# PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

|              |   |
|--------------|---|
| Date         | 31 October 2022   |
| Team ID      | PNT2022TMID01909  |
| 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 Python environment. The left window displays the Python code, and the right window shows the output of the code execution.

**Code Window (Left):**

```
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 (Right):**

```
IDLE Shell 3.9.8  
File Edit Shell Debug Options Window Help  
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 output shows the execution of the code, displaying the generated random values for each variable: Hazardous Gas Level= 46, Temperature= 31, Humidity= 74, and Pressure= 96.

IBM Watson IoT Platform

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ID: yf0dy

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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

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| 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

```

{
  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