

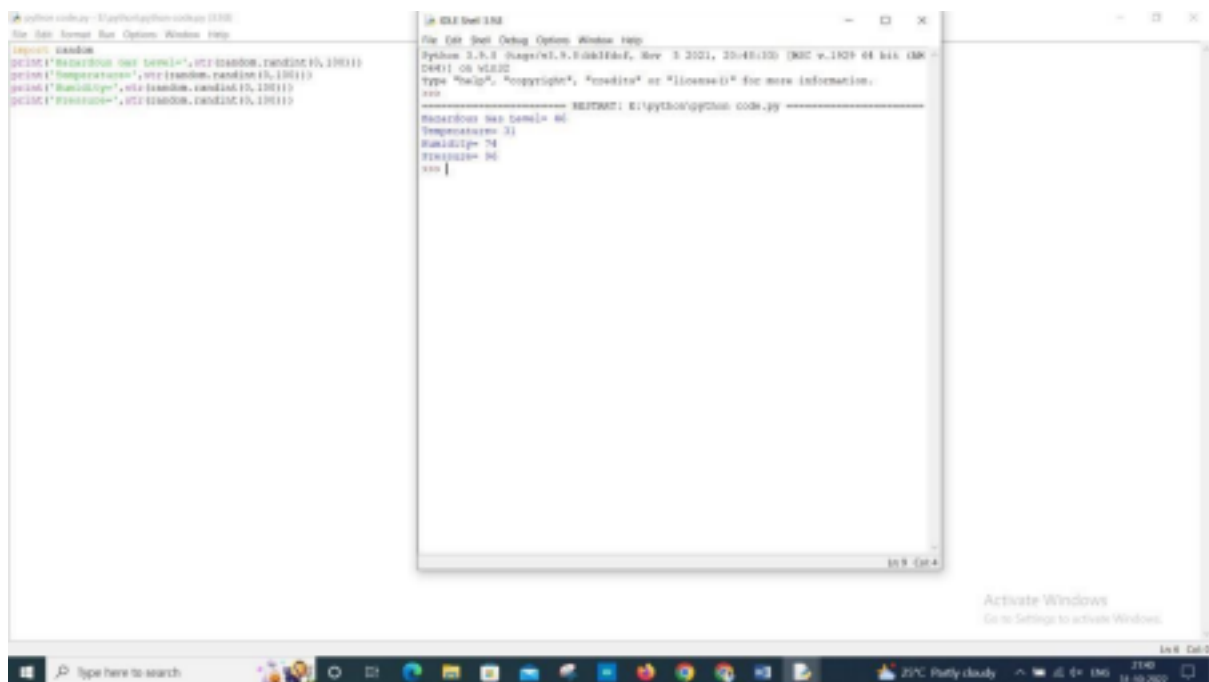
PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

| | |
|--------------|---|
| Date | 3 NOVEMBER 2022 |
| Team ID | PNT2022TMID26613 |
| 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 displays two windows from a Windows operating system. The window on the left is titled 'python code.py - Python/python code.py (1776)' and 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)))
```

The window on the right is titled 'IDE Shell 3.8' and shows the output of the code. It includes the Python version (3.8.5), the file path, and the execution results for each print statement, showing random values for Hazardous Gas Level, Temperature, Humidity, and Pressure.

```
Python 3.8.5 (tags/v3.8.5:6c348b2f, Nov 3 2021, 20:40:30) [AMD64 v1.1029 64 bit] on win32  
Type "help()" for more information.  
>>> ===== RESTART: Shell =====  
Hazardous Gas Level= 61  
Temperature= 31  
Humidity= 74  
Pressure= 90  
>>>
```

IBM Watson IoT Platform

Device ID: 12345 Status: Disconnected Device Type: Nagarajan Class ID: Device Date Added: Oct 31, 2022 11:39 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":51,"Temperature":30,"Humidity":... | json | a few seconds ago |
| event_1 | ["Hazardous Gas":20,"Temperature":36,"Humidity":... | json | a few seconds ago |
| event_1 | ["Hazardous Gas":79,"Temperature":56,"Humidity":... | json | a few seconds ago |
| event_1 | ["Hazardous Gas":52,"Temperature":82,"Humidity":... | json | a few seconds ago |
| event_1 | ["Hazardous Gas":26,"Temperature":33,"Humidity":... | json | a few seconds ago |

1 Simulation running

IBM Watson IoT Platform

Device Type: Nagarajan

Events 1

Event type name: event_1

Schedule: 20 Every Minute

Payload: Specify the event payload in the editor window or by uploading a CSV file.

```

1 {
2   "Hazardous Gas": random(0, 100),
3   "Temperature": random(0, 100),
4   "Humidity": random(0, 100),
5   "Pressure": random(0, 100)
6 }

```

Items per page: 50 | 1-1 of 1 item