

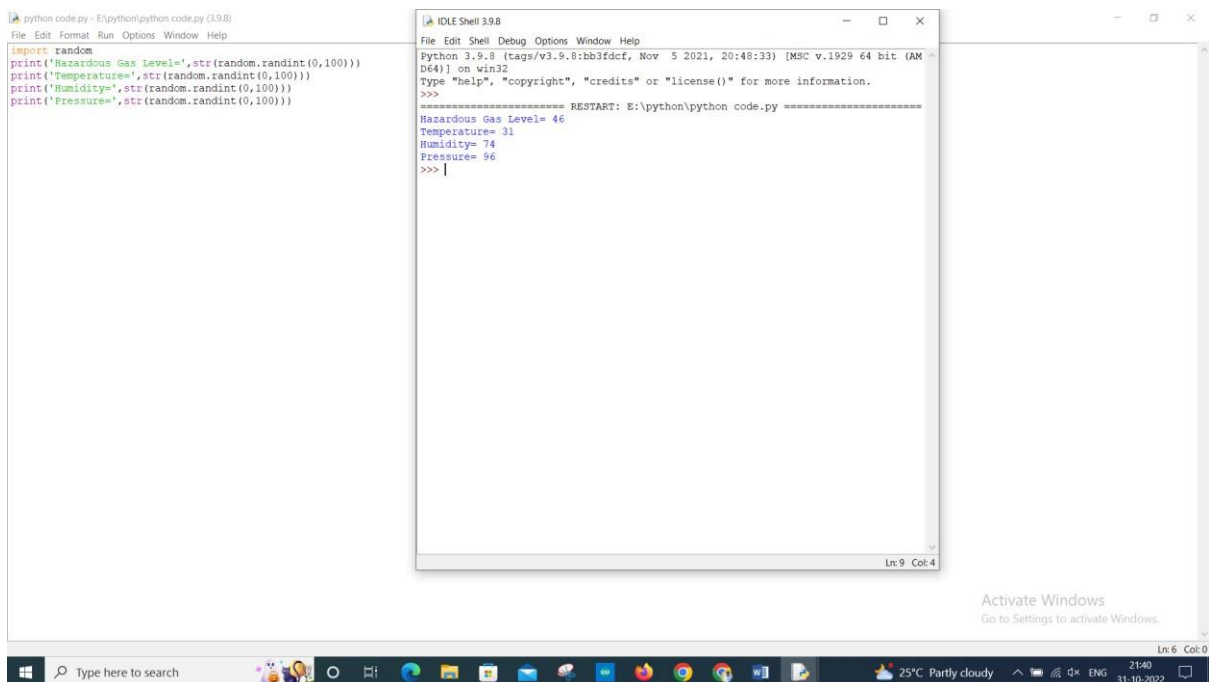
PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	31 October 2022
Team ID	PNT2022TMID27080
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 a Windows desktop environment. In the foreground, the 'IDLE Shell 3.9.8' window is open, showing the execution of a Python script. The script's output is as follows:

```
Python 3.9.8 (tags/v3.9.8:bb3fdec, Nov 5 2021, 20:48:33) [MSC v.1929 64 bit (AMD64)] on win32  
>>>  
===== RESTART: E:\python\python code.py =====>>>  
Hazardous Gas Level= 46  
Temperature= 31  
Humidity= 74  
Pressure= 96  
>>> |
```

In the background, another window titled 'python code.py - E:\python\python code.py (3.9.8)' is visible, showing the source code of the script. The Windows taskbar at the bottom indicates the system time as 21:40 on 31-10-2022, with a weather forecast of 25°C Partly cloudy.

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

Add Device +

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":82,"tempurature":32,"humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":85,"tempurature":45,"humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":31,"tempurature":44,"humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":85,"tempurature":23,"humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":97,"tempurature":40,"hum		

2 Simulations running

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https://n4a410.internetofthings.ibmcloud.com/dashboard/devices/browse

Browse Action Device Types Interfaces

Device Type: TestDeviceType

Events 1

New event type +

Event type name event_1 Send

Schedule 60 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   "tempurature":random(10,50),  
3   "humidity":random(0,100),  
4   "Pressure":random(0,100),  
5 }
```