

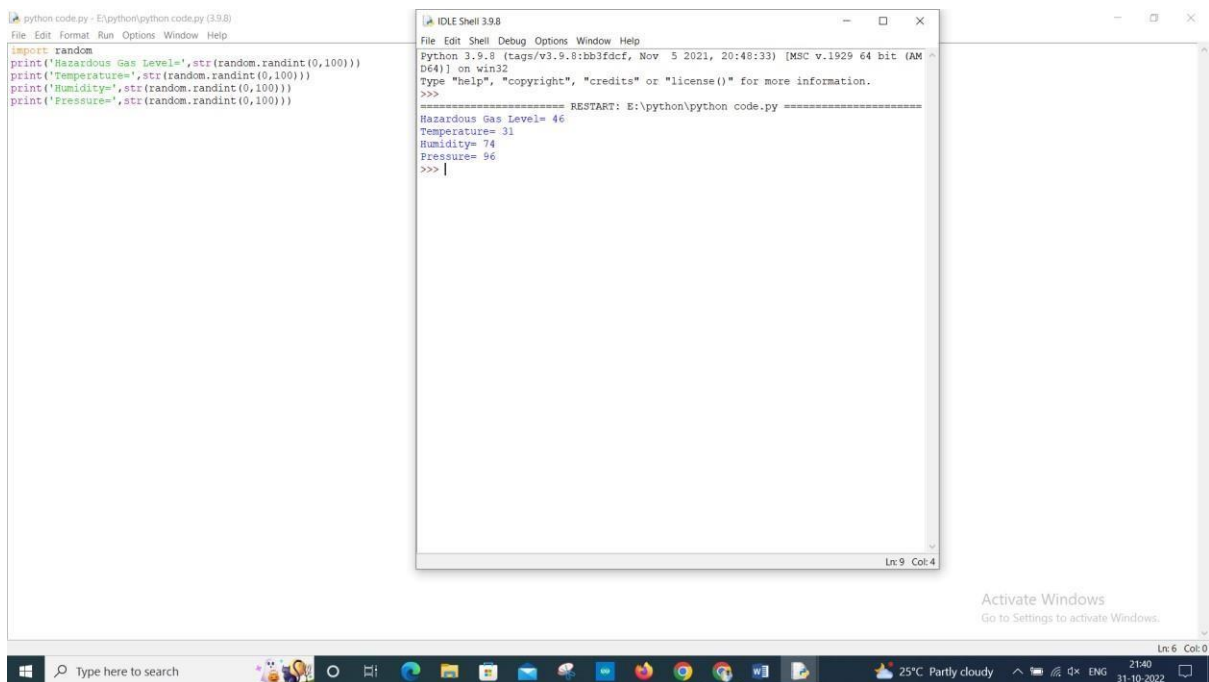
## PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	7 NOV 2022
Team ID	PNT2022TMID54064
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 the IDLE 3.9.8 Python Shell window. The code is executed, and the output is displayed as follows:

```
Python 3.9.8 (tags/v3.9.8:bb3fddc, 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

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

2 Simulations running

← → ↻

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

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Browse

Action

Device Types

Interfaces

Identity

Device Information

Recent Events

The recent events listed show the live stream of data that is coming

Event	Value
event_1	{"Hazardous Gas":82,"temperature":47,"hum
event_1	{"Hazardous Gas":84,"temperature":11,"hum
event_1	{"Hazardous Gas":2,"temperature":46,"humic
event_1	{"Hazardous Gas":11,"temperature":40,"hum
event_1	{"Hazardous Gas":25,"temperature":32,"hum

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