

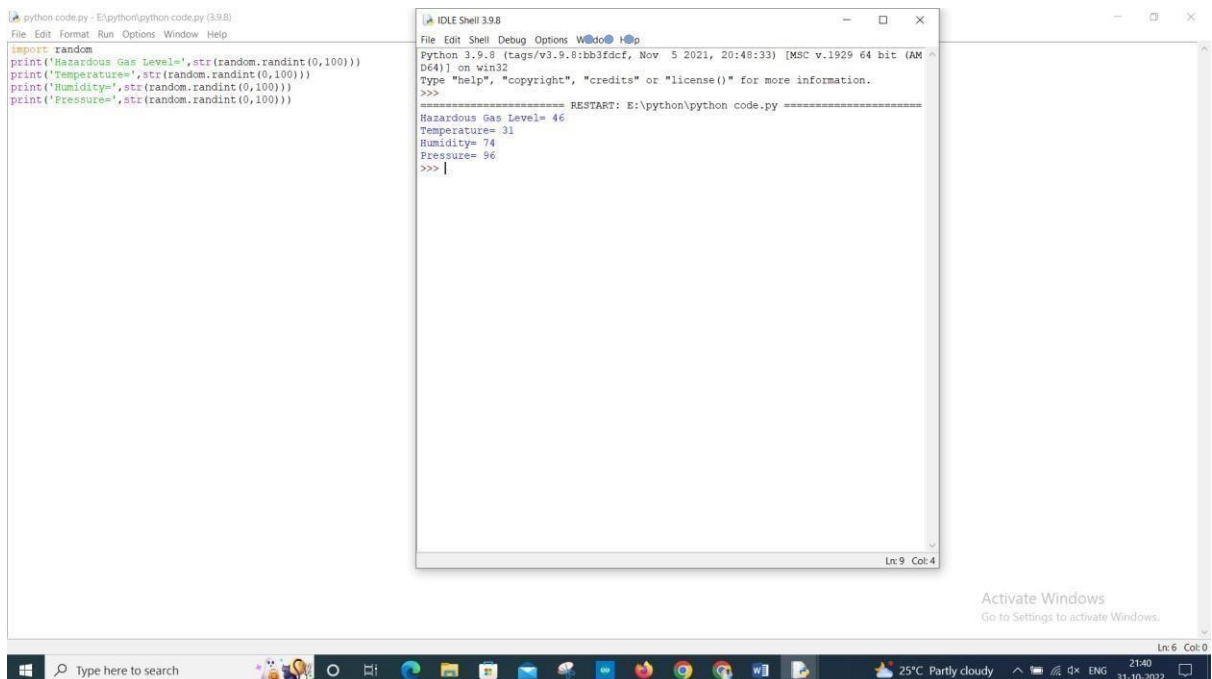
PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	28 OCTOBER 2022
Team ID	PNT2022TMID00641
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

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 code editor window titled 'python code.py - E:\python\python code.py (3.9.8)' shows 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:bb3fcdcf, 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, and the weather as 25°C Partly cloudy.

IBM Watson IoT Platform

1b25c.internetofthings.ibmcloud.com/dashboard/devices/browse

130719106304@smartinternz.com
ID: 1b25c

Browse Action Device Types

Search by Device ID

Device ID

12345_1

Identity Device

The recent events listed

Event Value

event_1 [n

event_1 [n

event_1 [n

event_1 [randomNumber":23,"temp":44,"hum":84] json 1 Simulation running

Event Payload

Event Name event_1

Time Received Nov 2, 2022 3:07 PM

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

Device Simulator

PM

26°C Rain to stop

15:08 02-11-2022

IBM Watson IoT Platform

130719106304@smartinternz.com
ID: 1b25c

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

15:08 02-11-2022

...