

PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

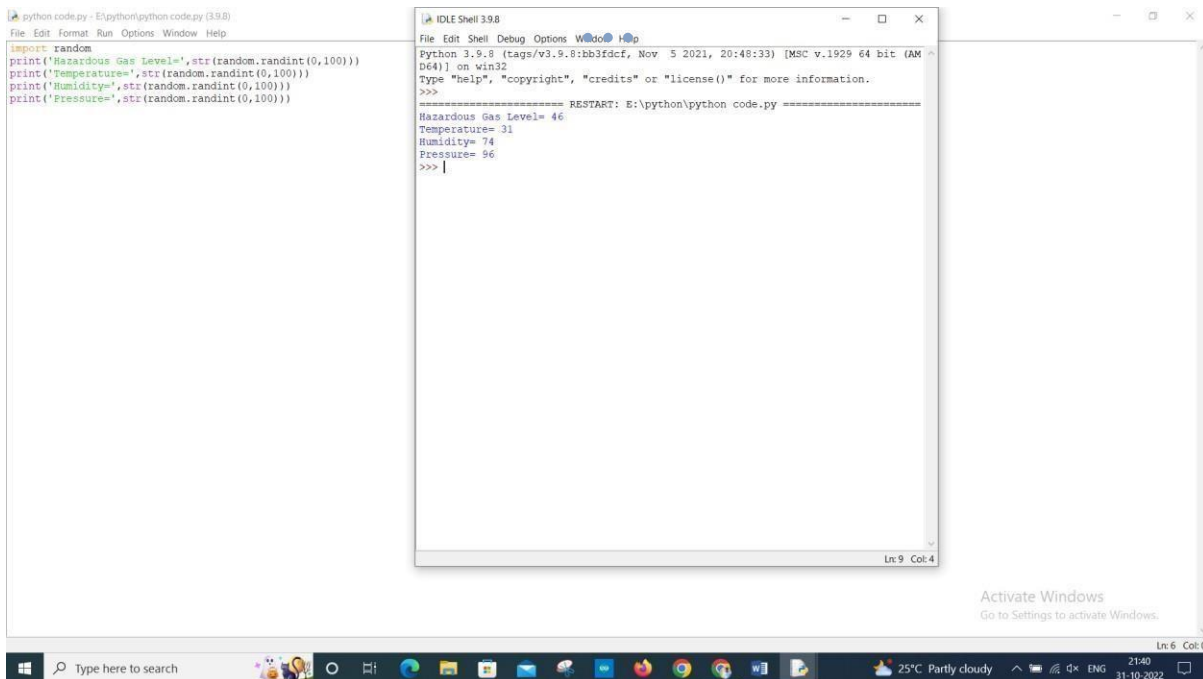
Date	17 th November 2022
Team ID	PNT2022TMID23719
Project Name	Gas Leakage Monitoring and Alerting System for industries
Maximum Mark	4 marks

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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 text editor window titled 'python code.py' 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)))
```

On the right, an 'IDLE Shell 3.9.8' window shows the output of the script after execution:

```
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 Windows taskbar at the bottom shows the date as 31-10-2022 and the time as 21:40. The system tray indicates a temperature of 25°C and 'Partly cloudy' weather.

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 }
```

The recent events listed

Event	Val
event_1	[{"randomNumber": 67, "temp": 57, "hum": 92}]
event_1	[{"randomNumber": 67, "temp": 57, "hum": 92}]
event_1	[{"randomNumber": 67, "temp": 57, "hum": 92}]
event_1	[{"randomNumber": 67, "temp": 57, "hum": 92}]

1 Simulation running

Device ID: 12345_1, Status: Connected, Device Type: 12345, Class ID: Device, Date Added: 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