

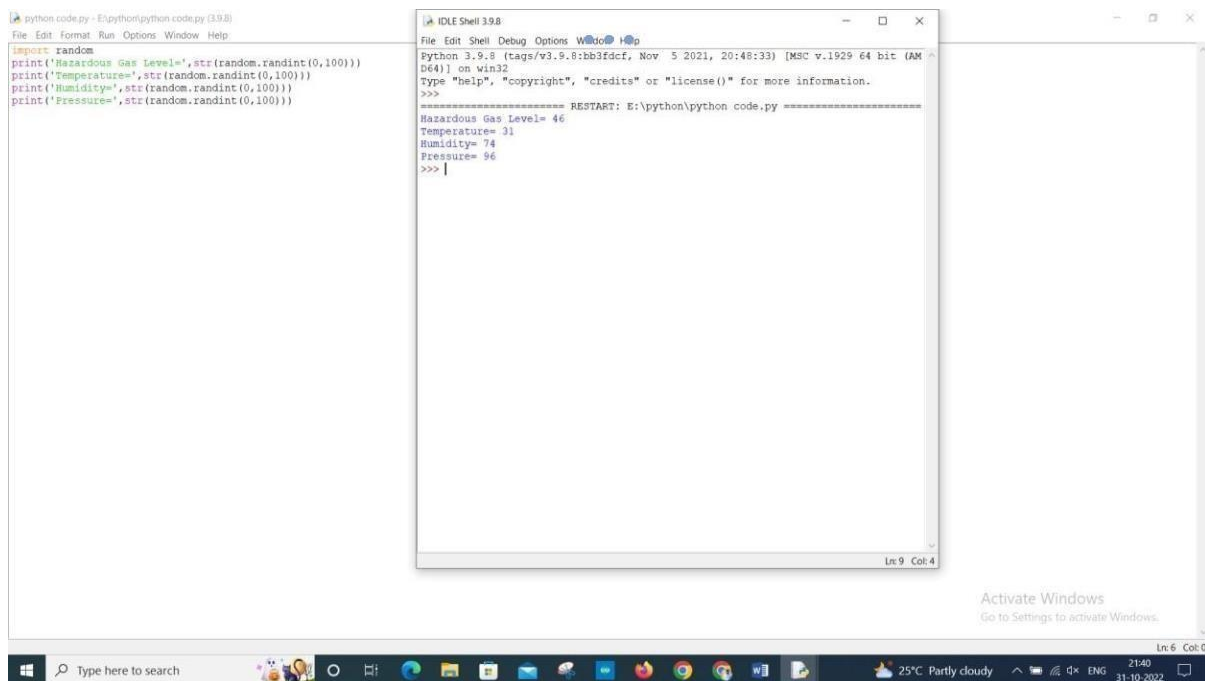
## PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	16 NOVEMBER 2022
Team ID	PNT2022TMID07798
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: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
>>> |
```

In the background, the IDLE Editor window is visible, containing the following Python code:

```
python code.py - E:\python\python code.py (3.9.8)
File Edit Format Run Options Window Help
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 Windows taskbar at the bottom shows the system clock as 21:40 on 31-10-2022, along with weather information (25°C Partly cloudy) and various system icons.

IBM Watson IoT Platform

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ID: yc0zyz

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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_2	{"Hazardous gas":64,"Temperature":23,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":60,"Temperature":60,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":85,"Temperature":73,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":72,"Temperature":66,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":98,"Temperature":32,"Humidit...	json	a few seconds ago

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1 Simulation running

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Action

Device Types

Interfaces

>

b11m3edevicetid

Disconnected

b11m3edevicetype

Device

ultrasonic\_sensor

Disconnected

ESP32\_controller

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_2	{"Hazardous gas":20,"Temperature":61,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":72,"Temperature":5,"Humidity...	json	a few seconds ago
event_2	{"Hazardous gas":38,"Temperature":19,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":92,"Temperature":51,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":33,"Temperature":48,"Humidit...	json	a few seconds ago

Device Type: ESP32\_controller

Events 1

New event type

Event type name

event\_2

Send

Schedule

50

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(0, 100),

3 "Humidity": random(0, 100),

4 "Pressure": random(0, 100)

5 }

6

Cancel

Save

2