

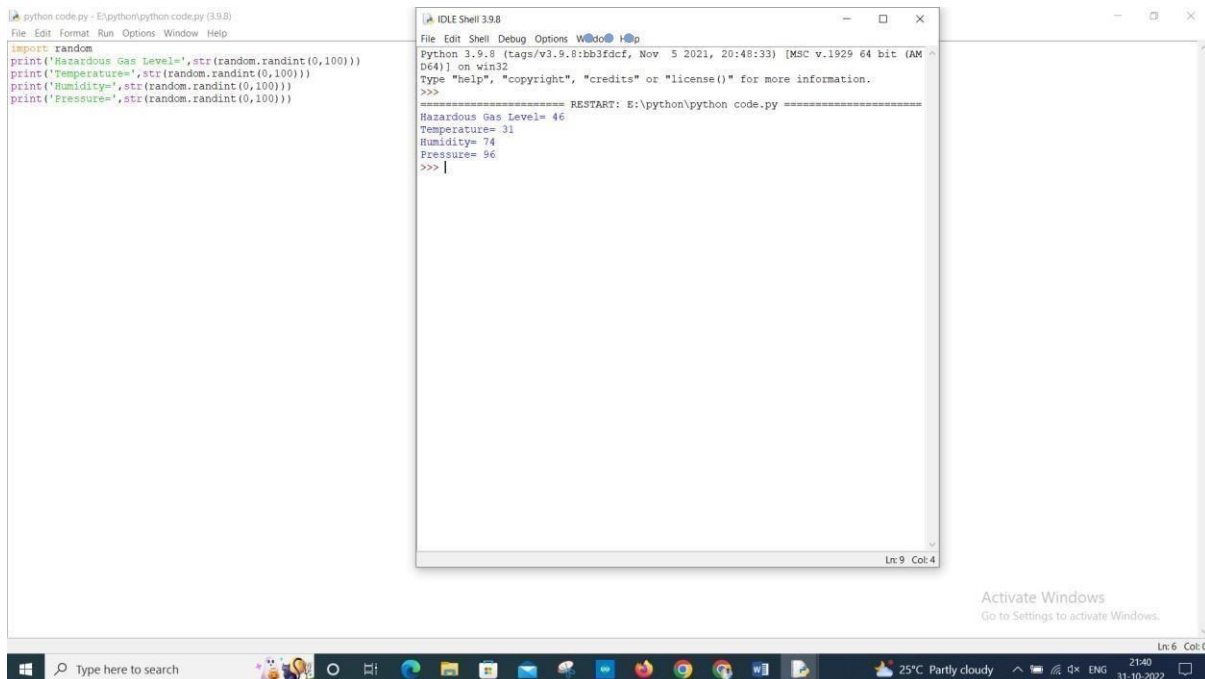
PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	9 NOVEMBER 2022
Team ID	PNT2022TMID45922
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. On the left, a text editor window titled 'python code.py - E:\python\python code.py (3.9.8)' 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. The output is as follows:

```
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.

The screenshot displays the IoT Central console interface. On the left is a dark sidebar with navigation icons. The main area has tabs for Browse, Action, Device Types, and Interfaces. Below these are sub-tabs: Identity, Device Information, Recent Events (selected), State, and Logs.

A message states: "The recent events listed show the live stream of data that is coming and going from this device."

Event	Value	Format	Last Receive
event_1	{"Hazardous Gas":57,"Temperature":98,"Humidit..."}	json	a few seconds ago
event_1	{"Hazardous Gas":3,"Temperature":35,"Humidity":...}	json	a few seconds ago
event_1	{"Hazardous Gas":69,"Temperature":74,"Humidit..."}	json	a few seconds ago
event_1	{"Hazardous Gas":85,"Temperature":51,"Humidit..."}	json	a few seconds ago
event_1	{"Hazardous Gas":92,"Temperature":35,"Humidit..."}	json	a few seconds ago

At the bottom, it says "Items per page 50 | 1–1 of 1 item".

An overlay window titled "New event type" is open on the right. It shows:

- Events**: 1
- New event type**: + button
- Event type name**: event_1
- Send** button
- Schedule**: 20 Every Minute
- Payload**: Specify the event payload in the editor window or by uploading a CSV file.
- Payload Editor**: A code editor showing a JSON payload:


```
{
  "Hazardous Gas": random(0, 100),
  "Temperature": random(0, 100),
  "Humidity": random(0, 100),
  "Pressure": random(0, 100)
}
```
- Buttons**: Cancel, Save