

PYTHON CODE

Team ID	PNT2022TMID16227
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

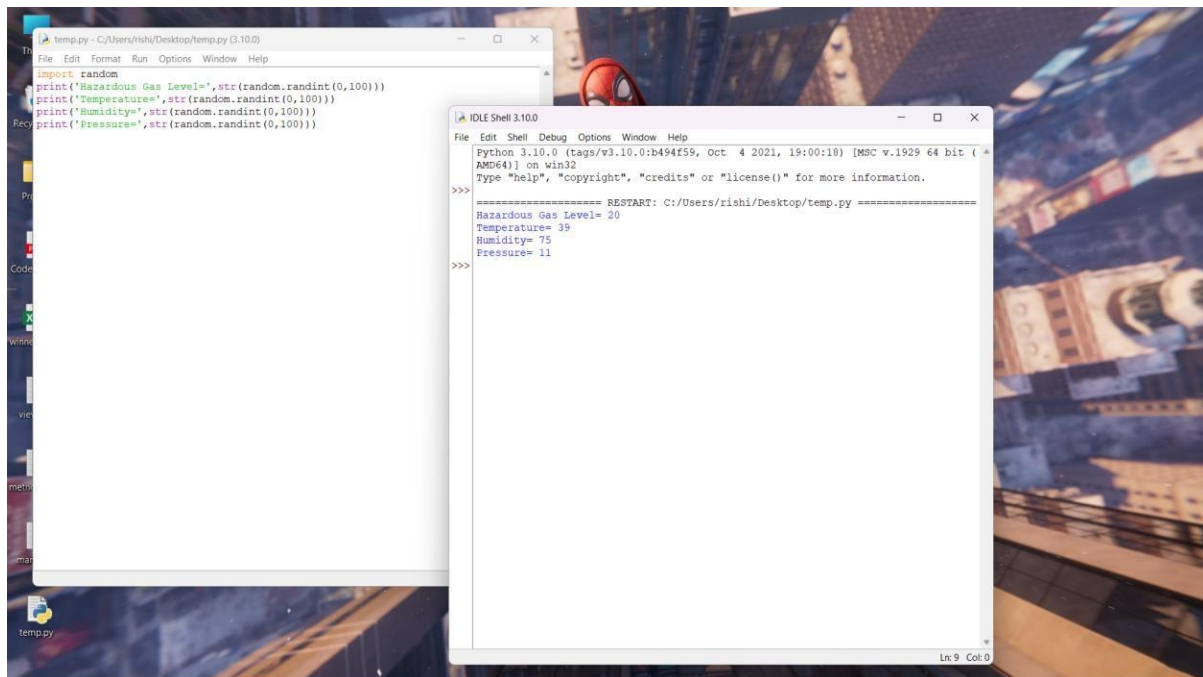
Source Code:

```
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 a Windows desktop with a Spider-Man wallpaper. Two windows are open: a Python script editor and an IDLE Shell. The script editor window, titled 'temp.py - C:/Users/rishi/Desktop/temp.py (3.10.0)', contains the following 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)))
```

The IDLE Shell window, titled 'IDLE Shell 3.10.0', shows the output of the script after a restart:

```
Python 3.10.0 (tags/v3.10.0:b494f59, Oct 4 2021, 19:00:18) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/rishi/Desktop/temp.py =====
Hazardous Gas Level= 20
Temperature= 39
Humidity= 75
Pressure= 11
>>>
```

The screenshot displays the IoT Central interface. On the left is a dark sidebar with navigation icons. The main area has a top navigation bar with links: Browse, Action, Device Types, and Interfaces. Below this, a text box explains that the table shows a summary of all added devices, which can be filtered or searched via API.

A search bar labeled "Search by Device ID" is present. Below it is a table listing devices:

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date
<input checked="" type="checkbox"/>	1234	Disconnected	GASLEAKAGE	Device	Nov

Below the table are tabs for Identity, Device Information, Recent Events, State, and Logs. The "Recent Events" tab is active, showing a message: "The recent events listed show the live stream of data that is coming and going from this device."

An overlay window titled "Device Type: GASLEAKAGE" is open on the right. It contains sections for "Events" (with a "New event type" button), "Schedule" (set to "Every Minute"), and "Payload". The payload editor shows a JSON snippet:

```
{
  "randomNumber": random(0, 100),
  "temp": random(10, 80),
  "hue": random(0, 100)
}
```

Buttons for "Send", "Upload a CSV file", "Cancel", and "Save" are visible at the bottom of the overlay.

Browse Action Device Types Interfaces
Add Device +

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
▼	■ 1234	🔌 Disconnected	GASLEAKAGE	Device	Nov 11, 2022 10:20 AM	→ ...

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
pro1	{"randomNumber":16,"temp":23,"hum":92}	json	a few seconds ago
pro1	{"randomNumber":84,"temp":54,"hum":98}	json	a few seconds ago
pro1	{"randomNumber":88,"temp":19,"hum":83}	json	a few seconds ago
pro1	{"randomNumber":92,"temp":33,"hum":97}	json	a few seconds ago
pro1	{"randomNumber":43,"temp":83,"hum":87}	json	a few seconds ago

Items per page: 50 | 1–1 of 1 item

1 Simulation running