

PYTHON CODE

Team ID	PNT2022TMID19147
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

Source Code:

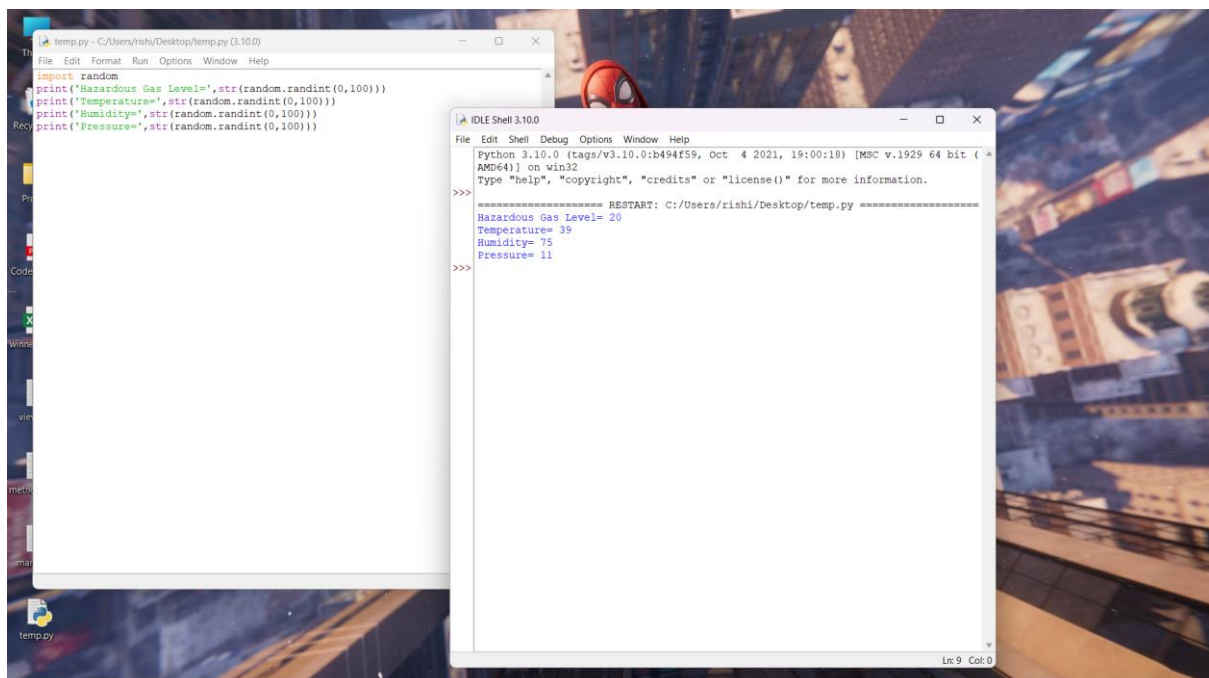
```
import random

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:

A screenshot of a Windows desktop with a Spider-Man wallpaper. In the foreground, there are two windows. The left window is a text editor titled 'temp.py - C:/Users/rishi/Desktop/temp.py (3.10.0)' showing the Python code from the previous block. The right window is the 'IDLE Shell 3.10.0' showing the output of the script. The output displays four lines of data: 'Hazardous Gas Level= 20', 'Temperature= 39', 'Humidity= 75', and 'Pressure= 11'.

```
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
>>>
```

IBM Watson IoT Platform

0fd9sp.internetofthings.ibmcloud.com/dashboard/devices/browse

Device Type: GASLEAKAGE

Events 1

Event type name: pro1

Schedule: 20 Every Minute

Payload

```
{
  "randomNumber": random(0, 100),
  "temp": random(10, 88),
  "hum": random(80, 100)
}
```

Upload a CSV file

Cancel Save

Device ID	Status	Device Type	Class ID	Date
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

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1 Simulation running