

PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	3 NOVEMBER 2022
TEAM ID	<u>PNT2022TMID25430</u>
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

PYTHON CODE:

```
import random

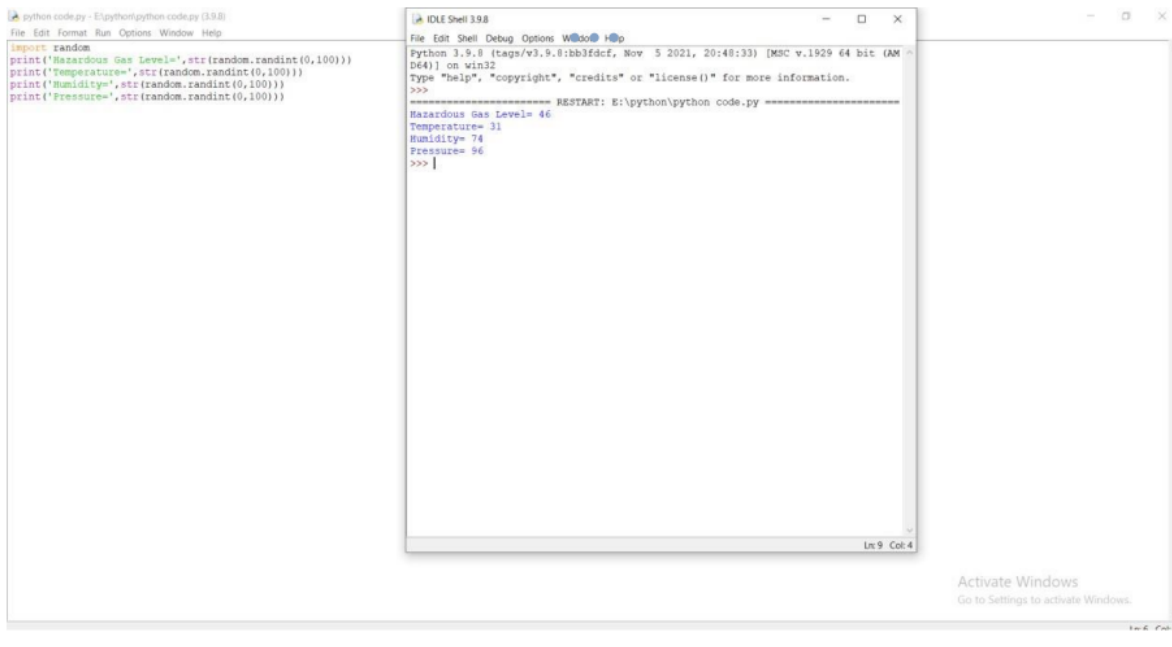
print('Hazardous Gas Level=',str(random.randint(0,100)))

print('Temperature=',str(random.randint(0,100)))

print('Humidity=',str(random.randint(0,100)))

print('Pressure=',str(random.randint(0,100)))
```

OUTPUT:



The screenshot shows two windows from the Python IDLE environment. The left window, titled 'python code.py', contains the Python code for generating random values for gas level, temperature, humidity, and pressure. The right window, titled 'IDLE Shell 398', shows the execution output. The output displays the results of the random number generation for each variable.

```
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)))

IDLE Shell 398
File Edit Shell Debug Options W@do@p
Python 3.9.8 (tags/v3.9.8:bb3fdecf, 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
>>> |
```

Activate Windows
Go to Settings to activate Windows.

IBM Watson IoT Platform

harikrishnankrishnan277@gmail.com
ID: 267qfc

Browse

Action

Device Types

Interfaces

Add Device

Browse Devices

All Devices

Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By
267qfc	Disconnected	Harikrishnan	Device	Nov 15, 2022 6:56 PM		harikrishnankrishnan277@gmail.com

Identity

Device Information

Recent Events

State

Logs

Device ID

267qfc

Device Type

Harikrishnan

Date Added

Nov 15, 2022 6:56 PM

Added By

harikrishnankrishnan277@gmail.com

Connection Status

Disconnected

Items per page: 50

1 of 1 of 1 item

1 of 1 page

IBM Watson IoT Platform

harikrishnankrishnan277@gmail.com
ID: 267qfc

Browse

Action

Device Types

Interfaces

Add Device

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	Nagarajan	Device	Oct 31, 2022 11:38 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
event_1	{"Hazardous Gas":61,"Temperature":88,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":20,"Temperature":36,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":79,"Temperature":56,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":52,"Temperature":82,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":26,"Temperature":33,"Humidit...	json	a few seconds ago

1 Simulation running

Activate Windows
Go to Settings to activate Windows.

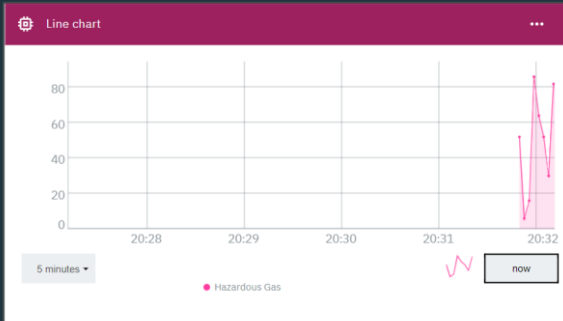


My Board



+ Add New Card

Settings



1 Simulation running

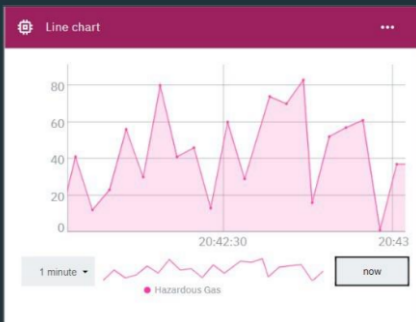
Activate Windows
Go to Settings to activate Windows

My Board



+ Add New Card

Settings



1 Simulation running

Activate Windows
Go to Settings to activate Windows

