

PYTHON CODE

Team ID	PNT2022TMID31143
Project Name	Gas Leakage monitoring & Alerting system for Industries

PYTHON CODE

```
import random

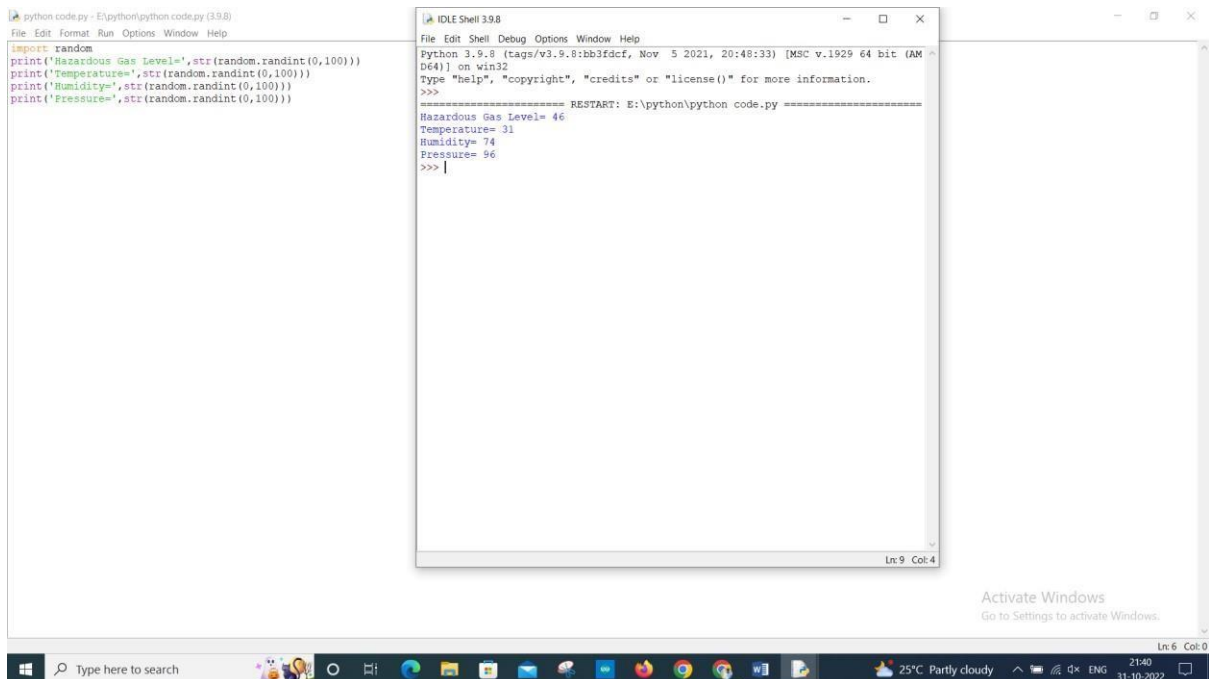
print('Hazardous Gas Level=',str(random.randint(0,100)))

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 output of a Python script. The script, located in 'python code.py' at 'E:\python\python code.py', imports the 'random' module and prints four random values: Hazardous Gas Level (46), Temperature (31), Humidity (74), and Pressure (96). The background shows the Windows taskbar with various application icons and a system tray indicating the date and time as 21:40 on 31-10-2022.

```
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 3.9.8
File Edit Shell Debug Options Window Help
Python 3.9.8 (tags/v3.9.8:bb3fdec, 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
>>> |
```

IBM Watson IoT Platform

310819106056@smartiniernz.com
ID: n4a410

Browse

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_1	{"Hazardous Gas":82,"temperature":32,"humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":85,"temperature":45,"humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":31,"temperature":44,"humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":85,"temperature":23,"humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":97,"temperature":40,"hum		

2 Simulations running

← → ↻

https://n4a410.internetofthings.ibmcloud.com/dashboard/devices/browse

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IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

Identity

Device Information

Recent Events

The recent events listed show the live stream of data that is coming

Event	Value
event_1	{"Hazardous Gas":82,"temperature":47,"hum
event_1	{"Hazardous Gas":84,"temperature":11,"hum
event_1	{"Hazardous Gas":2,"temperature":46,"humic
event_1	{"Hazardous Gas":11,"temperature":40,"hum
event_1	{"Hazardous Gas":25,"temperature":32,"hum

Device Type: TestDeviceType

Events 1

New event type

Event type name event_1

Send

Schedule

60 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(10,50),  
3   "humidity":random(0,100),  
4   "Pressure":random(0,100)  
5 }
```