

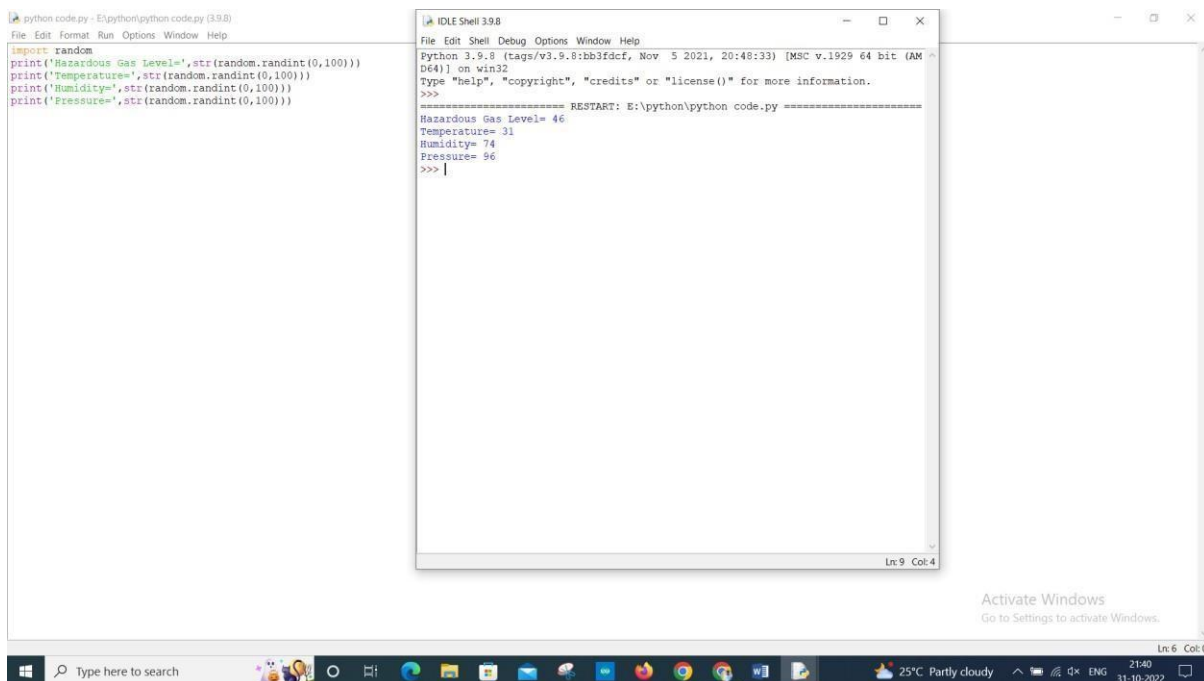
PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	8 NOVEMBER 2022
Team ID	PNT2022TMID26079
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 IDLE Python environment. The left window displays the source code for a Python script named 'python code.py'. The code imports the 'random' module and prints four random values between 0 and 100, each associated with a specific environmental parameter. The right window, titled 'IDLE Shell 3.9.8', shows the output of the script after execution. It displays the same four parameters with their respective random values: Hazardous Gas Level= 46, Temperature= 31, Humidity= 74, and Pressure= 96. The Windows taskbar at the bottom indicates the system 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:bb3f3dcf, 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

211519106127@smartinternz.com
ID: v2g696

Browse Action Device Types Interfaces

Add Device +

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	sairaj	Device	12 Nov 2022 11:07 PM	

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_2	{"Hazardous gas":34,"Temperature":42,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":49,"Temperature":18,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":57,"Temperature":34,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":45,"Temperature":75,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":14,"Temperature":36,"Humidit...	json	a few seconds ago

1 Simulation running

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211519106127@smartinternz.com
ID: v2g696

Browse Action Device Types Interfaces

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 ID	Status	Device Type	Class ID
12345	Disconnected	sairaj	Device
ultrasonic_sensor	Disconnected	ESP32_controller	Device

Items per page 50 | 1-2 of 2 items

Device Type: sairaj

Events 1 New event type +

Event type name event_2 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(0,100),  
3   "Humidity": random(0,100),  
4   "Pressure": random(0,100)  
5 }
```

Upload a CSV file

Cancel Save