

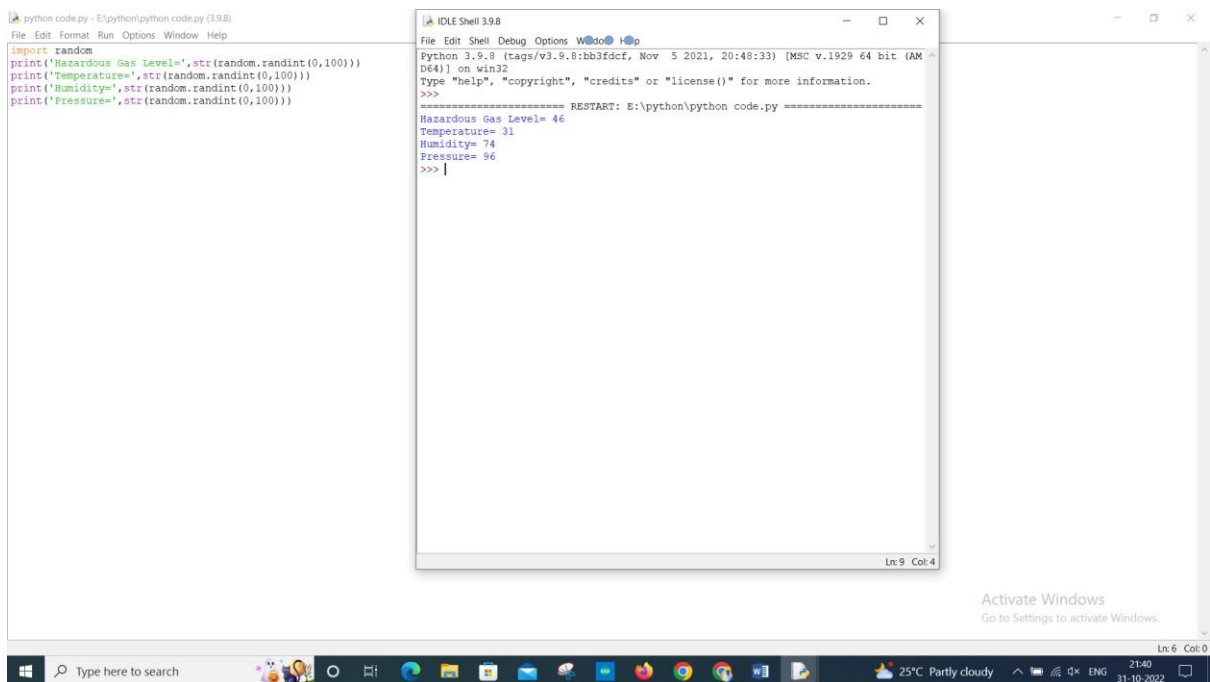
PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	13 NOVEMBER 2022
Team ID	PNT2022TMID05376
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 displays a Python IDE with two windows. The left window, titled 'python code.py - E:\python\python code.py (3.9.8)', 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 right window, titled 'IDLE Shell 3.9.8', shows the output of the code after execution:

```
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
>>> |
```

The Windows taskbar at the bottom shows the date as 31-10-2022 and the time as 21:40.

IBM Watson IoT Platform

vasuv3121@psnacet.edu.in
ID: a73pbg

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.

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Browse

Action

Device Types

Interfaces

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":57,"Temperature":98,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":3,"Temperature":35,"Humidity...	json	a few seconds ago
event_1	{"Hazardous Gas":69,"Temperature":74,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":85,"Temperature":51,"Humidit...	json	a few seconds ago
event_1	{"Hazardous Gas":92,"Temperature":35,"Humidit...	json	a few seconds ago

Items per page 50 | 1-1 of 1 item

Device Type: Nagarajan

Events 1

New event type

Event type name event_1

Send

Schedule

20 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 }
6

```

Cancel Save

Activate Windows

Go to Settings to activate Windows.