

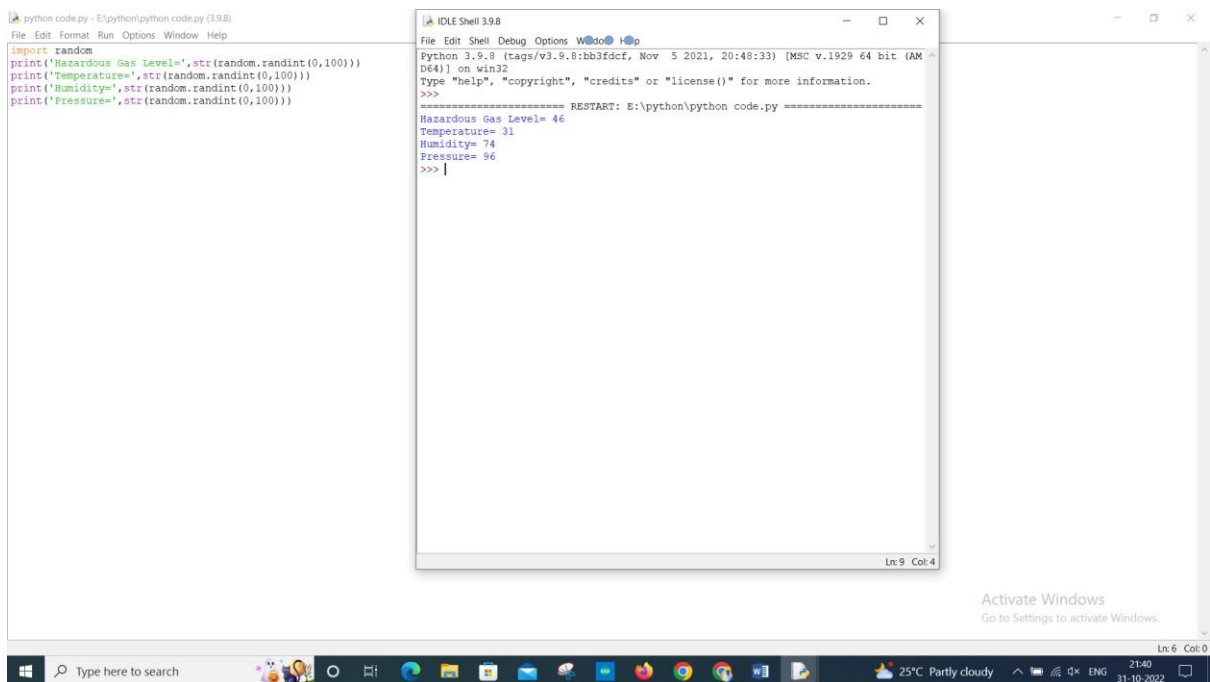
PYTHON CODE (GAS, TEMPERATURE, HUMIDITY& PRESSURE)

Date	7 NOVEMBER 2022
Team ID	PNT2022TMID51059
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: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
>>> |
```

The Windows taskbar at the bottom shows the date and time as 21:40 on 31-10-2022, and the weather as 25°C Partly cloudy.

IBM Watson IoT Platform

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Browse Action Device Types Interfaces

ADD DEVICE

GOT_1 Connected GOT Device Nov 12, 2022 4:48 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_1	{"Hazardous gas":1,"Temperature":96,"Humidity":...	json	a few seconds ago
event_1	{"Hazardous gas":14,"Temperature":31,"Humidity":...	json	a few seconds ago
event_1	{"Hazardous gas":42,"Temperature":95,"Humidity":...	json	a few seconds ago
event_1	{"Hazardous gas":21,"Temperature":89,"Humidity":...	json	a few seconds ago
event_1	{"Hazardous gas":55,"Temperature":56,"Humidity":...	json	a few seconds ago

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1 Simulation running

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Browse Action Device Types Interfaces

Search by Device ID

Device ID	Status	Device Type	Class ID	Date
1234	Disconnected	GOT	Device	Nov 12, 2022 4:48 PM
12345	Disconnected	Goms	Device	Nov 12, 2022 4:48 PM
GOT_1	Connected	GOT	Device	Nov 12, 2022 4:48 PM

Diagnostic Logs

A list of device errors and timestamps detailing when the error occurred.

Severity	Message	Timestamp
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Device Type: GOT

Events 1 Device actions

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

Token auth succeeded: ClientID=dw3lrnk:GOT... Nov 12, 2022 4:48 PM