

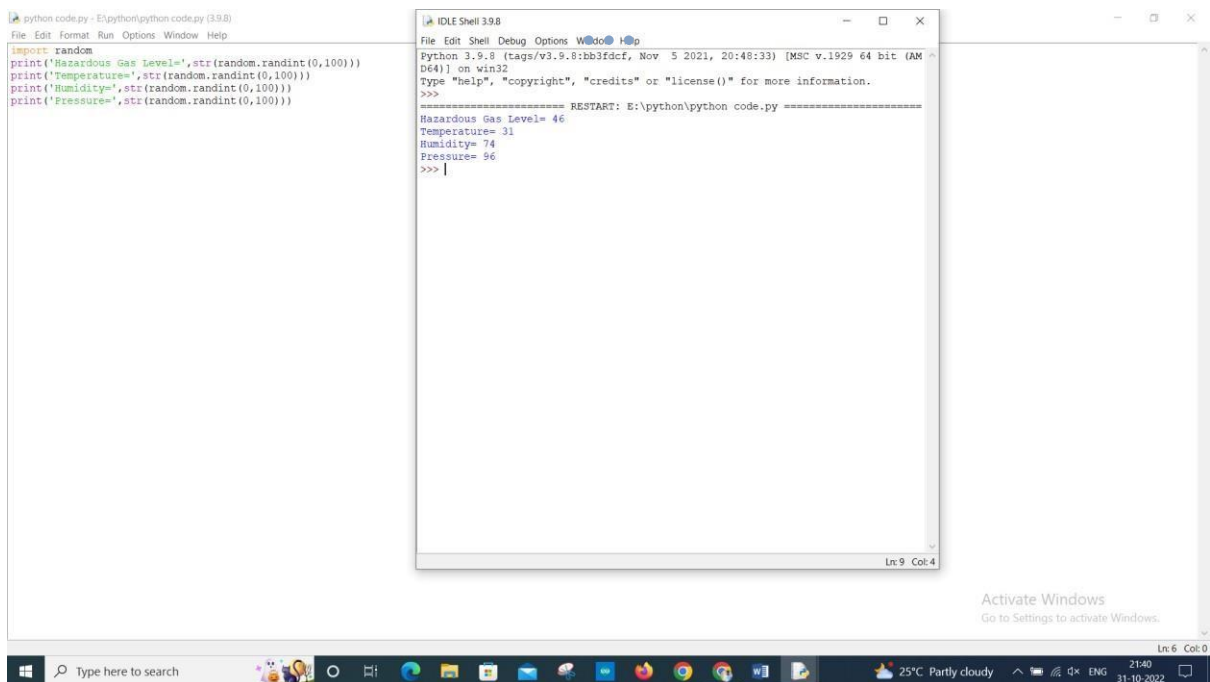
PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	3 NOVEMBER 2022
Team ID	PNT2022TMID42181
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.

All Devices Diagnose

🔍 Search by Device ID

Device Simulator 

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
> <input type="checkbox"/>	saranya	● Connected	Esp-32device	Device	9 Nov 2022 21:38
Items per page 50 1-1 of 1 item					1 of 1 page < 1 >

0 Simulations running

Activate Windows
Go to Settings to activate Windows.

The screenshot displays the IBM Watson IoT Platform interface. The main view shows the 'Recent Events' for a device named 'Nagarajan'. The events table contains five entries, all of type 'Hazardous Gas', with varying temperature and humidity values. A modal window is open on the right, showing the 'Device Type: Nagarajan' configuration. This window includes a section for 'Events' with a dropdown for 'Event type name' set to 'event_1'. Below this, there is a 'Schedule' section set to 'Every Minute' and a 'Payload' section with a JSON structure for sensor data.

Event	Value	Format	Last Received
event_3	("Hazardous Gas";57,"Temperature";98,"Humidity";100)	json	a few seconds ago
event_3	("Hazardous Gas";3,"Temperature";35,"Humidity";100)	json	a few seconds ago
event_1	("Hazardous Gas";69,"Temperature";74,"Humidity";100)	json	a few seconds ago
event_1	("Hazardous Gas";85,"Temperature";53,"Humidity";100)	json	a few seconds ago
event_3	("Hazardous Gas";92,"Temperature";35,"Humidity";100)	json	a few seconds ago

Items per page: 50 | 1-1 of 1 item

Device Type: Nagarajan

Events: 3

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",
    2: "Temperature",
    3: "Humidity",
    4: "Pressure",
    5: }
  }

```

Cancel Save

Go to Settings to activate Windows