

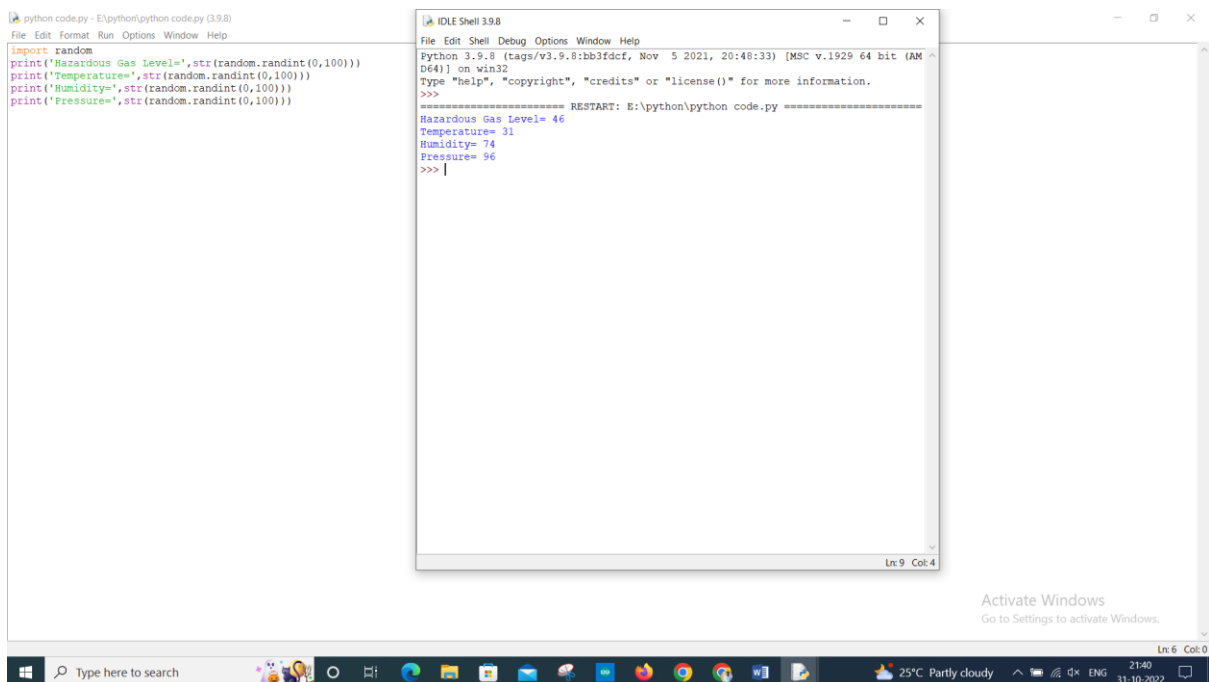
# PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	31 October 2022
Team ID	PNT2022TMID27071
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 Windows desktop environment. On the left, a text editor window titled 'python code.py - E:\python\python code.py (3.9.8)' contains the following 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)))
```

On the right, an 'IDLE Shell 3.9.8' window shows the execution output after a restart:

```
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 system clock as 21:40 on 31-10-2022, with a weather widget indicating 25°C and 'Partly cloudy'.

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area displays the 'Recent Events' tab for a device with ID 12345, which is currently 'Disconnected'. The device is named 'Kumaran' and the data was last updated on 'Oct 31, 2022 11:38 AM'. Below the tabs, a message states: 'The recent events listed show the live stream of data that is coming and going from this device.' A table lists five recent events, all of type 'event\_1' and in 'json' format, received 'a few seconds ago'. The table columns are 'Event', 'Value', 'Format', and 'Last Received'. The values are truncated JSON strings representing sensor data. At the bottom, it indicates 'Items per page 50' and '1-1 of 1 item'. A status bar at the very bottom shows '1 Simulation running' and a Windows taskbar with the date '31-10-2022'.

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

This screenshot shows the configuration window for a device type named 'Kumaran'. The window has a 'Send' button and a 'New event type' button. The 'Event type name' is set to 'event\_1'. Under the 'Schedule' section, the frequency is set to 'Every Minute'. The 'Payload' section contains a JSON object with four fields: 'Hazardous Gas', 'Temperature', 'Humidity', and 'Pressure', each assigned a random value between 0 and 100. The payload is displayed in a code editor with line numbers. At the bottom of the window are 'Cancel' and 'Save' buttons. The background shows the same dashboard as the first screenshot, with the 'Recent Events' table visible.

```

0 {
1   "Hazardous Gas": random(0, 100),
2   "Temperature": random(0, 100),
3   "Humidity": random(0, 100),
4   "Pressure": random(0, 100)
5 }
6
  
```