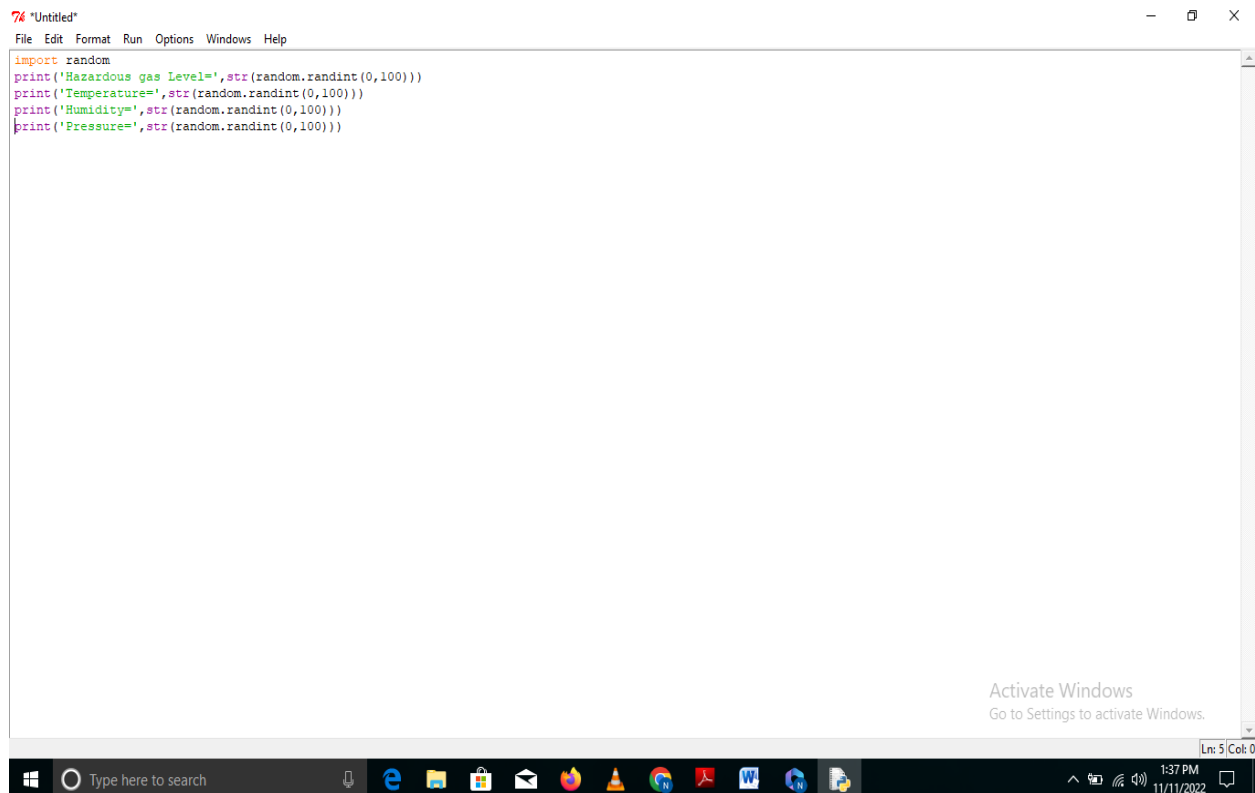


PYTHON CODE

Date	11 November 2022
Team ID	PNT2022TMID30897
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEMS

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)))
```

A screenshot of a Python IDE window titled "Untitled". The window has a menu bar with "File", "Edit", "Format", "Run", "Options", "Windows", and "Help". The code editor contains the same Python code as shown in the previous block. The status bar at the bottom indicates "Ln: 5 Col: 0". The Windows taskbar is visible at the bottom of the screen, showing the Start button, a search bar, and several application icons. The system tray shows the time as 1:37 PM on 11/11/2022.

```
7% "Untitled"
File Edit Format Run Options Windows 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)))

Ln: 5 Col: 0
```

Activate Windows
Go to Settings to activate Windows.

Type here to search

1:37 PM
11/11/2022

OUTPUT:

```
Python Shell
File Edit Shell Debug Options Windows Help
Python 3.3.0 (v3.3.0:bd8afb90ebf2, Sep 29 2012, 10:55:48) [MSC v.1600 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART =====
>>>
Hazardous gas Level= 76
Temperature= 65
Humidity= 73
Pressure= 73
>>>
```

Activate Windows
Go to Settings to activate Windows.

Ln: 9 | Col: 4

IBM Cloud Output:

The screenshot displays the IBM Watson IoT Platform interface. The main dashboard shows a list of devices, with 'sdje_2' selected and its status 'Disconnected'. The 'Recent Events' tab is active, showing a list of events. A modal window is open for configuring a new event type named 'event_1' for device type 'sdje'. The modal includes a 'Schedule' section set to 'Every Minute' and a 'Payload' section with a JSON payload. The taskbar at the bottom shows several open PDF documents and the system clock indicating 3:19 PM on 11/11/2022.

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Device ID Status Device Type

sdje_2 Disconnected sdje

Identity Device Information Recent Events State

The recent events listed show the live stream of data that is coming and going

Event	Value
event_1	{"Hazardous gas Level":99,"Temperature":28,"H...
event_1	{"Hazardous gas Level":22,"Temperature":41,"H...
event_1	{"Hazardous gas Level":63,"Temperature":52,"H...
event_1	{"Hazardous gas Level":17,"Temperature":47,"H...
event_1	{"Hazardous gas Level":51,"Temperature":14,"H...

json a few seconds ago

Device Type: sdje

Events 1 New event type +

Event type name event_1 Send

Schedule 60 Every Minute

Payload Specify the event payload in the editor window or by uploading a CSV file.

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

Activate Windows Go to Settings to activate Windows. Show all

Create the IBM Wa...pdf Create Node-RED...pdf Create A Database...pdf Use Dashboard No...pdf Develop the Web...pdf

Type here to search 3:19 PM 11/11/2022