

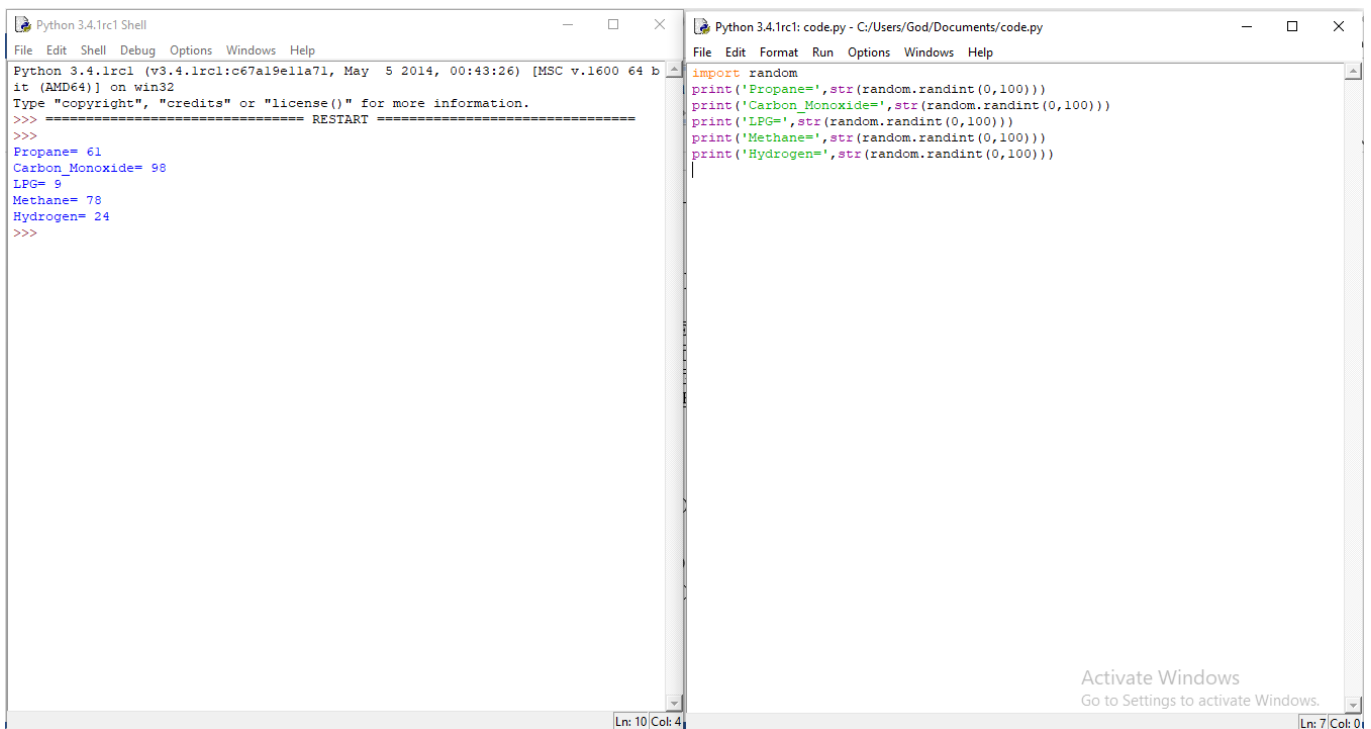
DEVELOP A PYTHON CODE

Date	16 NOVEMBER 2022
Team ID	PNT2022TMID51029
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

PYTHON CODE

```
import random
print('Propane=',str(random.randint(0,100)))
print('Carbon_Monoxide=',str(random.randint(0,100)))
print('LPG=',str(random.randint(0,100)))
print('Methane=',str(random.randint(0,100)))
print('Hydrogen=',str(random.randint(0,100)))
```

OUTPUT:



The image shows two side-by-side windows from a Python 3.4.1rc1 Shell. The left window displays the output of the Python code, showing random values for Propane, Carbon_Monoxide, LPG, Methane, and Hydrogen. The right window displays the source code of the program, which uses the random module to generate random integers between 0 and 100 for each gas type.

```
Python 3.4.1rc1 Shell
File Edit Shell Debug Options Windows Help
Python 3.4.1rc1 (v3.4.1rc1:c67a19ella71, May 5 2014, 00:43:26) [MSC v.1600 64 b
it (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART =====
>>>
Propane= 61
Carbon_Monoxide= 98
LPG= 9
Methane= 78
Hydrogen= 24
>>>
```

```
Python 3.4.1rc1: code.py - C:/Users/God/Documents/code.py
File Edit Format Run Options Windows Help
import random
print('Propane=',str(random.randint(0,100)))
print('Carbon_Monoxide=',str(random.randint(0,100)))
print('LPG=',str(random.randint(0,100)))
print('Methane=',str(random.randint(0,100)))
print('Hydrogen=',str(random.randint(0,100)))
```

IBM Watson IoT Platform

Device Type: weather_device

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   "Propane": random(0,2000),
2   "Carbon_Monoxide": random(0,100),
3   "LPG": random(0,2000),
4   "Methane": random(0,1000),
5   "Hydrogen": random(0,5000)
6 }
7
```

Activate Windows
Go to Settings to activate Windows.

IBM Watson IoT Platform

Recent Events

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	{"Propane":35,"Carbon_Monoxide":40,"LPG":85...	json	a few seconds ago
event_1	{"Propane":126,"Carbon_Monoxide":35,"LPG":4...	json	a few seconds ago
event_1	{"Propane":1154,"Carbon_Monoxide":85,"LPG":...	json	a few seconds ago
event_1	{"Propane":251,"Carbon_Monoxide":45,"LPG":8...	json	a few seconds ago
event_1	{"Propane":998,"Carbon_Monoxide":95,"LPG":1...	json	a few seconds ago

0 Simulations running

Activate Windows
Go to Settings to activate Windows.

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Simulations

1/50 Simulations Running

+ New Simulation

Device Type weather_device

1 Event

2 Devices

S weather_device_2

S weather_device_1

1 x Create Simulated Device Use Registered Device

Device Type iot-device

1 Event

Activate Windows

Go to Settings to activate Windows.

weather_device_1 Connected weather_dev

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	{"Propane":1679,"Carbon_Monoxide":64,"LPG":1...
event_1	{"Propane":908,"Carbon_Monoxide":56,"LPG":2...
event_1	{"Propane":250,"Carbon_Monoxide":55,"LPG":1...
event_1	{"Propane":1744,"Carbon_Monoxide":89,"LPG":...
event_1	{"Propane":1799,"Carbon_Monoxide":60,"LPG":...