

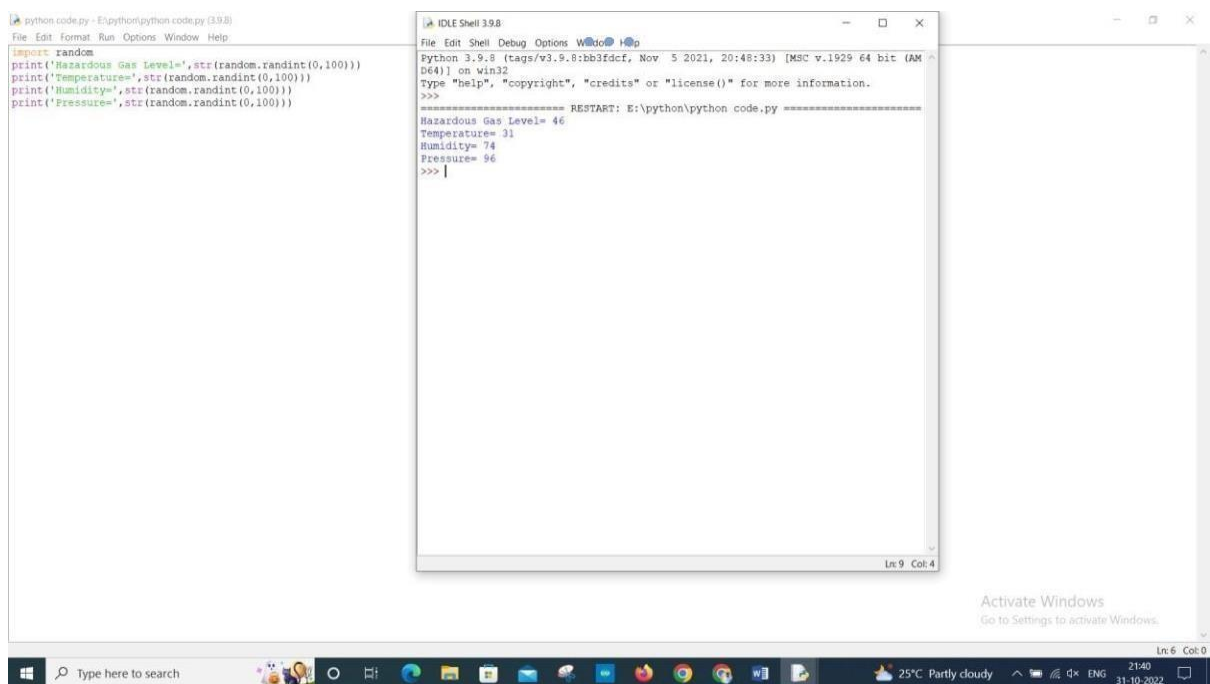
PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	16 NOVEMBER 2022
Team ID	PNT2022TMID52232
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 window titled 'python code.py - E:\python\python code.py (3.9.8)' shows the Python code. On the right, a 'Python Shell 3.9.8' window shows the output of the code. The output indicates a restart of the script and displays the following values: Hazardous Gas Level= 46, Temperature= 31, Humidity= 74, and Pressure= 96. The Windows taskbar at the bottom shows the search bar, task view button, and several application icons, including File Explorer, Edge, and various utility programs. The system tray on the right shows the date and time as 21:40 on 31-10-2022, along with weather information (25°C, Partly cloudy).

```
python code.py - E:\python\python code.py (3.9.8)  
File Edit Format Run Options Window 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)))  
  
Python Shell 3.9.8  
File Edit Shell Debug Options Window Help  
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  
>>> |
```

IBM Watson IoT Platform

963219106012@smartin...
ID: (select org)

Browse

Action

Device Types

Interfaces

Add Device

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_2	{"Hazardous gas":64,"Temperature":23,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":60,"Temperature":60,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":85,"Temperature":73,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":72,"Temperature":66,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":98,"Temperature":32,"Humidit...	json	a few seconds ago

Items per page 50 | 1-2 of 2 items

1 Simulation running

IBM Watson IoT Platform

963219106012@smartin...
ID: (select org)

Browse

Action

Device Types

Interfaces

>

b11m3edevicetype

Device

ultrasonic_sensor

Disconnected

ESP32_controller

Device

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_2	{"Hazardous gas":20,"Temperature":61,"Humidit...	json	a few seconds ago
event_2	{"Hazardous gas":72,"Temperature":5,"Humidity":...	json	a few seconds ago
event_2	{"Hazardous gas":38,"Temperature":19,"Humidity":...	json	a few seconds ago
event_2	{"Hazardous gas":92,"Temperature":51,"Humidity":...	json	a few seconds ago
event_2	{"Hazardous gas":33,"Temperature":48,"Humidity":...	json	a few seconds ago

Device Type: ESP32_controller

Events 1

New event type

Event type name

event_2

Send

Schedule

50

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