

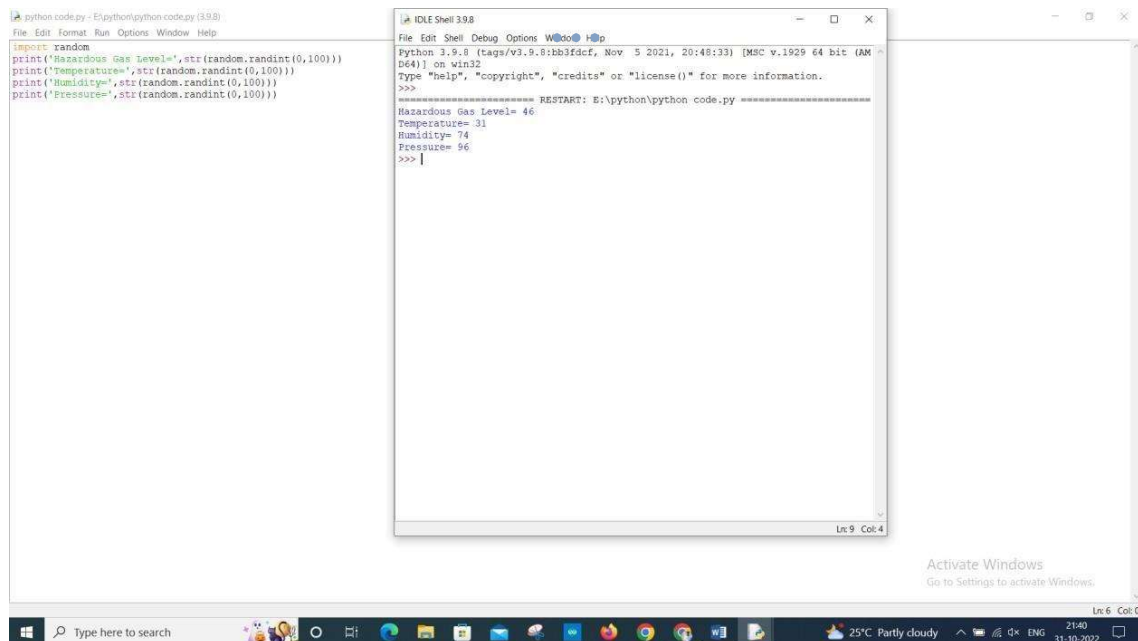
PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	9 NOVEMBER 2022
Team ID	PNT2022TMID05209
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 shows the source code for a program that generates random values for hazardous gas level, temperature, humidity, and pressure. The right window shows the output of the program, which has been restarted, resulting in the following values: Hazardous Gas Level= 46, Temperature= 31, Humidity= 74, and Pressure= 56. The Windows taskbar at the bottom shows the date as 31-10-2022 and the time as 21:40.

```
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)))  
  
IDLE Shell 3.9.8  
Python 3.9.8 (tags/v3.9.8:hh3f3d3f, 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= 56  
>>> |
```

IBM Watson IoT Platform

General Settings

Here you can see and modify global organization information and locally enable ex

Last Event Cache

Client Connection

State API

DATA AND DEVICES

Custom Device

Management Packages

Device Simulator

SECURITY

Connection Security

Activate Device Simulator

Connection Security

You can use the Connection Security Po

Open Connection Security Policy

CA Certificates

Upload a CA certificate which is used to authenticat

authentication by configuring the Risk Management

Connection Security policy

Device Type: 12345

Schedule

20

Every Minute

Payload

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

0 {

1 "temperature": random(0, 100)

2 "humidity": random(0, 100)

3 }

4

Upload a CSV file

What functions can I apply?

26°C Mostly sunny

Search

7lqplu.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

2116190801129@smartinternz.com ID: 7lqplu

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_1	{"temperature":16,"humidity":36}	json	a few seconds ago
event_1	{"temperature":51,"humidity":93}	json	a few seconds ago
event_1	{"temperature":73,"humidity":82}	json	a few seconds ago
event_1	{"temperature":61,"humidity":39}	json	a few seconds ago
event_1	{"temperature":41,"humidity":60}	json	a few seconds ago

1 Simulation running

26°C Mostly sunny

Search

11:15 17-11-2022