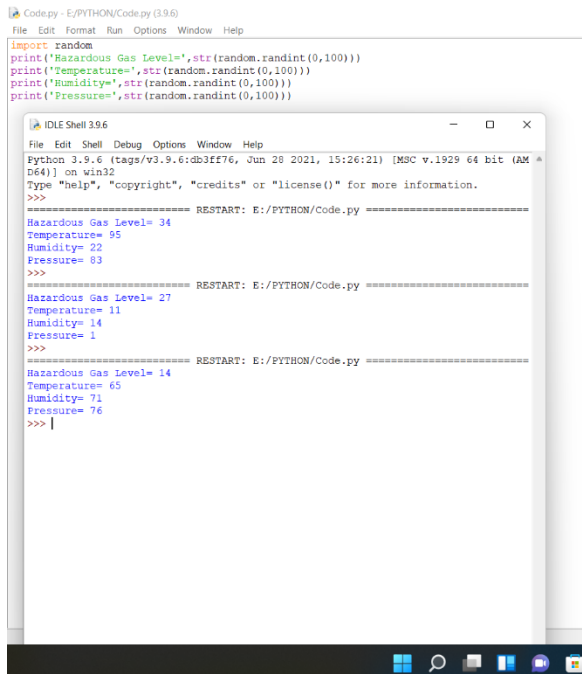


# PYTHON SCRIPT

Assignment Date	06 NOVEMBER2022
Team ID	PNT2022TMID42277
Project Name	Gas Leakage Monitoring and Alerting System

## 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)))
```



The screenshot shows a Windows desktop environment. In the background, a text editor window titled 'Code.py - E:/PYTHON/Code.py (3.9.6)' contains the following Python code:

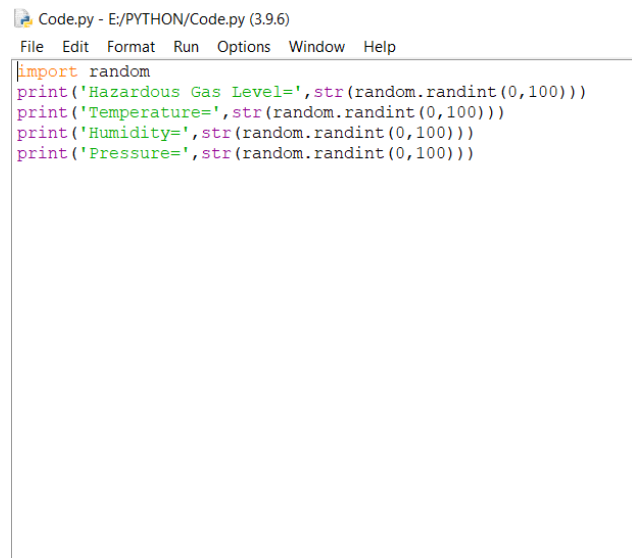
```
import random
print('Hazardous Gas Level=',str(random.randint(0,100)))
print('Temperature=',str(random.randint(0,100)))
print('Humidity=',str(random.randint(0,100)))
print('Pressure=',str(random.randint(0,100)))
```

In the foreground, a Windows Command Prompt window titled 'IDLE Shell 3.9.6' displays the output of the script after three consecutive runs. Each run is preceded by a 'RESTART: E:/PYTHON/Code.py' message. The output for each run is as follows:

```
RESTART: E:/PYTHON/Code.py
Hazardous Gas Level= 34
Temperature= 95
Humidity= 22
Pressure= 83

RESTART: E:/PYTHON/Code.py
Hazardous Gas Level= 27
Temperature= 11
Humidity= 14
Pressure= 1

RESTART: E:/PYTHON/Code.py
Hazardous Gas Level= 14
Temperature= 65
Humidity= 71
Pressure= 76
```



The screenshot shows a text editor window titled 'Code.py - E:/PYTHON/Code.py (3.9.6)' with 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)))
```

## Watson Code:

```
{  
  "Hazardous Gas": random(0,100),  
  "Temperature": random(0,100),  
  "Humidity": random(0,100),  
  "Pressure": random(0,100)  
}
```

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area shows a list of devices, with one device selected and its details displayed. The 'Recent Events' tab is active, showing a table of events with columns for 'Event', 'Value', 'Format', and 'Last Received'. The 'Value' column contains JSON payloads for 'Hazardous Gas', 'Temperature', 'Humidity', and 'Pressure'. A modal window is open on the right, titled 'ESP32 01', showing the 'Events' configuration. It includes a table for 'Event type name' and 'Frequency', and a 'Payload' section with a JSON editor. The 'Payload' section contains the following JSON:

```
{  
  "Hazardous Gas": random(0,100),  
  "Temperature": random(0,100),  
  "Humidity": random(0,100),  
  "Pressure": random(0,100)  
}
```

The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock indicating 06:28 PM on 06-11-2022.