# GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

## **Assignment 2**

#### **Problem Statement:**

Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

#### Code:

```
#A python code assume you get temperature and humidity values generated with
alarm in case of high temperature
def temp sensor(name):
    k=True
              print("PRESS ctrl+c SWITCH OFF THE ALARM ")
while k==True:
                           import random
                                                 import time
temperature=random.uniform(35,90)
                                          print (f"The current
temperature is {temperature:.2f}°C")
humidity=random.randint(30,100)
                                        print(f"Humidity is
{humidity}%")
                      if temperature>60:
            print(f" ≝ ≝ BEEP!!!!BEEP!!!! ≝ ≝ \n The temperature
has exceeded to {temperature:.2f}°C \n press BREAK to stop the alarm")
while temperature>60:
                                 k=str(input())
                                                             k=k.upper()
if k=="BREAK" :
                break
else:
                print('''Uh-oh I guess you've used wrong word kindly type
"BREAK" to stop the alarm ''')
continue
                     break
         if
temperature>60:
            print("The alarm has been switched off successfully")
else:
            print("The temperature is normal")
```

```
time.sleep(7)
k=True
name=str(input("ENTER YOUR USERNAME: ")) print("\tASSIGNMENT 2 -
DETECTING ALARM IN CASE OF HIGH TEMPERATURE") temp_sensor(name)
```

### Output:

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\xamp\htdocs\sms-igniter> & "C:/Program Files/Python310/python.exe" c:/xampp/htdocs/sms-igniter/assignment-2.py

BNIRM YOUR USERWAWE: harlkrishnon
ASSIGNMENT 2 - DETECTING ALADMY IN CASE OF HIGH TEMPERATURE

PRESS ct-lsc SUITOH OF The ALADMY
THE CURVENT temperature is 39.97°C
Hiddepotative is normal
The current temperature is 62.33°C
Hamidity is 95%

Windows the alarm has been switched off successfully
The current temperature is 50.877°C
Hamidity is 58%
The temperature is normal
The current temperature is 39.63°C
Hamidity is 60%
The temperature is normal
The current temperature is 63.79°C
Hamidity is 85%
Windows Hami
```