

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
random function to a variable and write a condition to continuously detect
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!!!!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:

```

assignment-2.py > ...
1
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python + - [ ] [x] ^

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

PS C:\xampp\htdocs\sms-igniter> & "C:/Program Files/Python310/python.exe" c:/xampp\htdocs\sms-igniter/assignment-2.py
ENTER YOUR USERNAME: Mohammed Umar Shariff
ASSIGNMENT 2 - DETECTING ALARM IN CASE OF HIGH TEMPERATURE
PRESS ctrl+c SWITCH OFF THE ALARM
The current temperature is 41.43°C
Humidity is 89%
The temperature is normal
The current temperature is 41.13°C
Humidity is 31%
The temperature is normal
The current temperature is 65.26°C
Humidity is 43%
🔥🔥 BEEP!!!!BEEP!!!!BEEP!!!!🔥🔥
The temperature has exceeded to 65.26°C
press BREAK to stop the alarm
break
The alarm has been switched off successfully
The current temperature is 62.10°C
Humidity is 31%
🔥🔥 BEEP!!!!BEEP!!!!BEEP!!!!🔥🔥
The temperature has exceeded to 62.10°C
press BREAK to stop the alarm
break
The alarm has been switched off successfully
The current temperature is 72.36°C
Humidity is 78%
🔥🔥 BEEP!!!!BEEP!!!!BEEP!!!!🔥🔥
The temperature has exceeded to 72.36°C
press BREAK to stop the alarm
break
The alarm has been switched off successfully
The current temperature is 60.51°C
Humidity is 53%
🔥🔥 BEEP!!!!BEEP!!!!BEEP!!!!🔥🔥
The temperature has exceeded to 60.51°C

```