

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 temp_sensor
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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER Python + v
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: yokesh
        ASSIGNMENT 2 - DETECTING ALARM IN CASE OF HIGH TEMPERATURE
PRESS ctrl+c SWITCH OFF THE ALARM
The current temperature is 83.88°C
Humidity is 99%
🔥🔥 BEEP!!!BEEP!!!BEEP!!!🔥🔥
The temperature has exceeded to 83.88°C
press BREAK to stop the alarm
break
The alarm has been switched off successfully
The current temperature is 75.67°C
Humidity is 38%
🔥🔥 BEEP!!!BEEP!!!BEEP!!!🔥🔥
The temperature has exceeded to 75.67°C
press BREAK to stop the alarm
break
The alarm has been switched off successfully
The current temperature is 58.01°C
Humidity is 81%
The temperature is normal
The current temperature is 88.05°C
Humidity is 45%
🔥🔥 BEEP!!!BEEP!!!BEEP!!!🔥🔥
The temperature has exceeded to 88.05°C
press BREAK to stop the alarm
break
The alarm has been switched off successfully
The current temperature is 37.05°C
Humidity is 42%
The temperature is normal
```