

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 > ...
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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER Python + v [ ] [ ]

ENTER YOUR USERNAME: Sadeed Afwan
ASSIGNMENT 2 - DETECTING ALARM IN CASE OF HIGH TEMPERATURE
PRESS ctrl+c SWITCH OFF THE ALARM
The current temperature is 55.63°C
Humidity is 72%
The temperature is normal
The current temperature is 51.97°C
Humidity is 44%
The temperature is normal
The current temperature is 83.54°C
Humidity is 98%
🔥🔥 BEEP!!!!BEEP!!!!BEEP!!!!🔥🔥
The temperature has exceeded to 83.54°C
press BREAK to stop the alarm
break
The alarm has been switched off successfully
The current temperature is 45.08°C
Humidity is 43%
The temperature is normal
The current temperature is 58.76°C
Humidity is 76%
The temperature is normal
The current temperature is 42.91°C
Humidity is 78%
The temperature is normal
The current temperature is 46.78°C
Humidity is 54%
The temperature is normal
The current temperature is 67.82°C
Humidity is 59%
🔥🔥 BEEP!!!!BEEP!!!!BEEP!!!!🔥🔥
The temperature has exceeded to 67.82°C
press BREAK to stop the alarm
break
The alarm has been switched off successfully
The current temperature is 37.44°C
Humidity is 44%
The temperature is normal
The current temperature is 50.03°C
Humidity is 93%

```