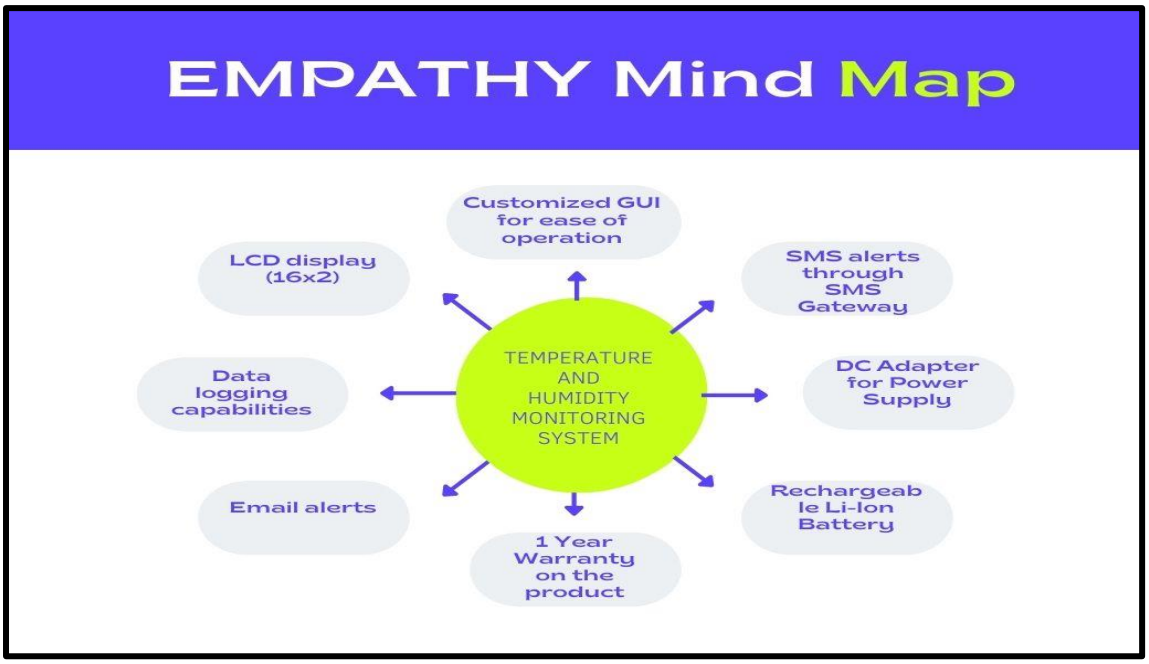
211419106104

ASSIGNMENT 2

To get Temperature and Humidity Values in Python Code



AIM:

To get temperature and humidity values with random function to a variable and write a condition to detect alarm in high temperature .

SOFTWARE USED :

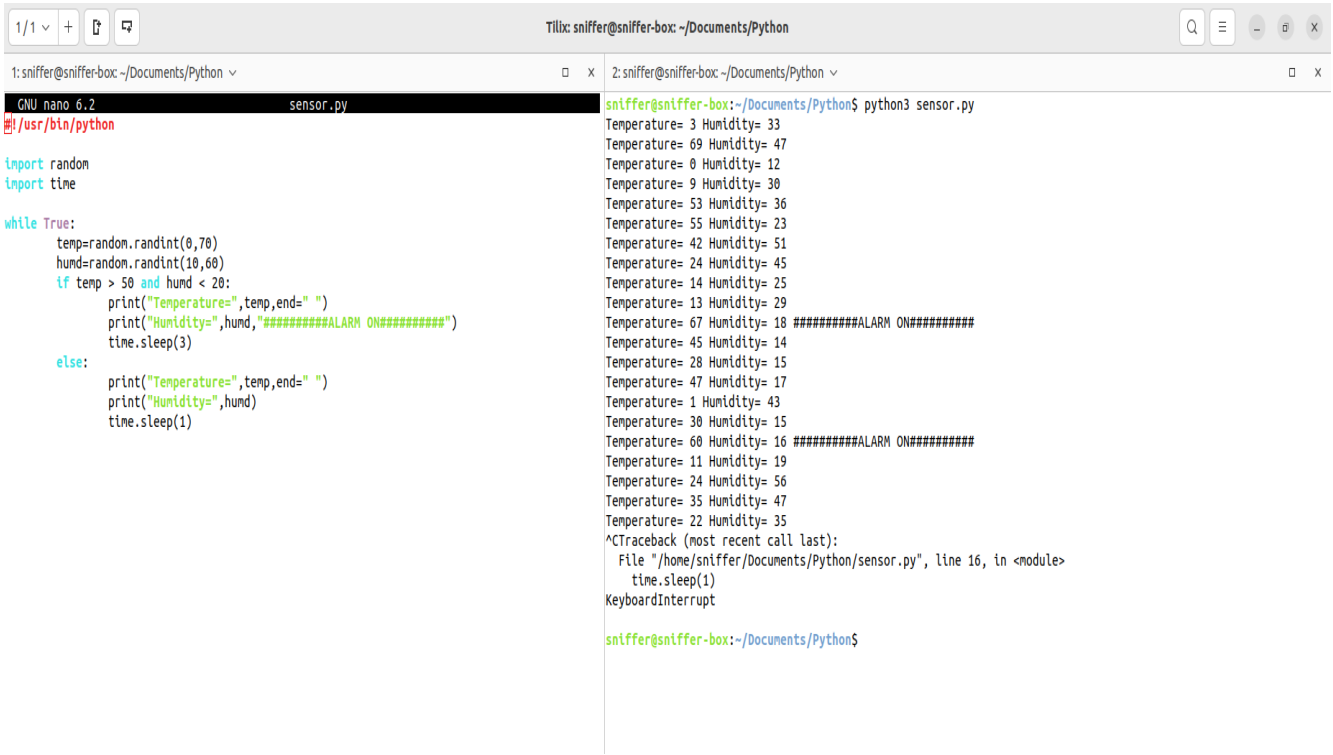
Python Idle 3.10.4 (64-bit)

PROGRAM :

```
import random
import time
while True:
    temp=random.randint(0,70)
    humd=random.randint(10,60)
    if temp > 50 and humd < 20:
        print("Temperature=",temp,end=" ")
        print("Humidity=",humd,"#########ALARM ON########")
```

```
                time.sleep(3)
        else:
                print("Temperature=",temp,end=" ")
                print("Humidity=",humd)
                time.sleep(1)
```

SIMULATION OUTPUT :



CONDITIONS TO DETECT ALARM IN HIGH TEMPERATURE :

1. Continuously monitor the environment temperature and humidity.
2. If the temperate is greater than 70 degrees and humidity less than 20 then sound the alarm.
3. Else keep the alarm off.

RESULT :

I have successfully coded for temperature and humidity values with random function to a variable and write a condition to detect alarm in high temperature .