

ASSIGNMENT-2

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

Ranishka M -960119104014 BATCH: B2-

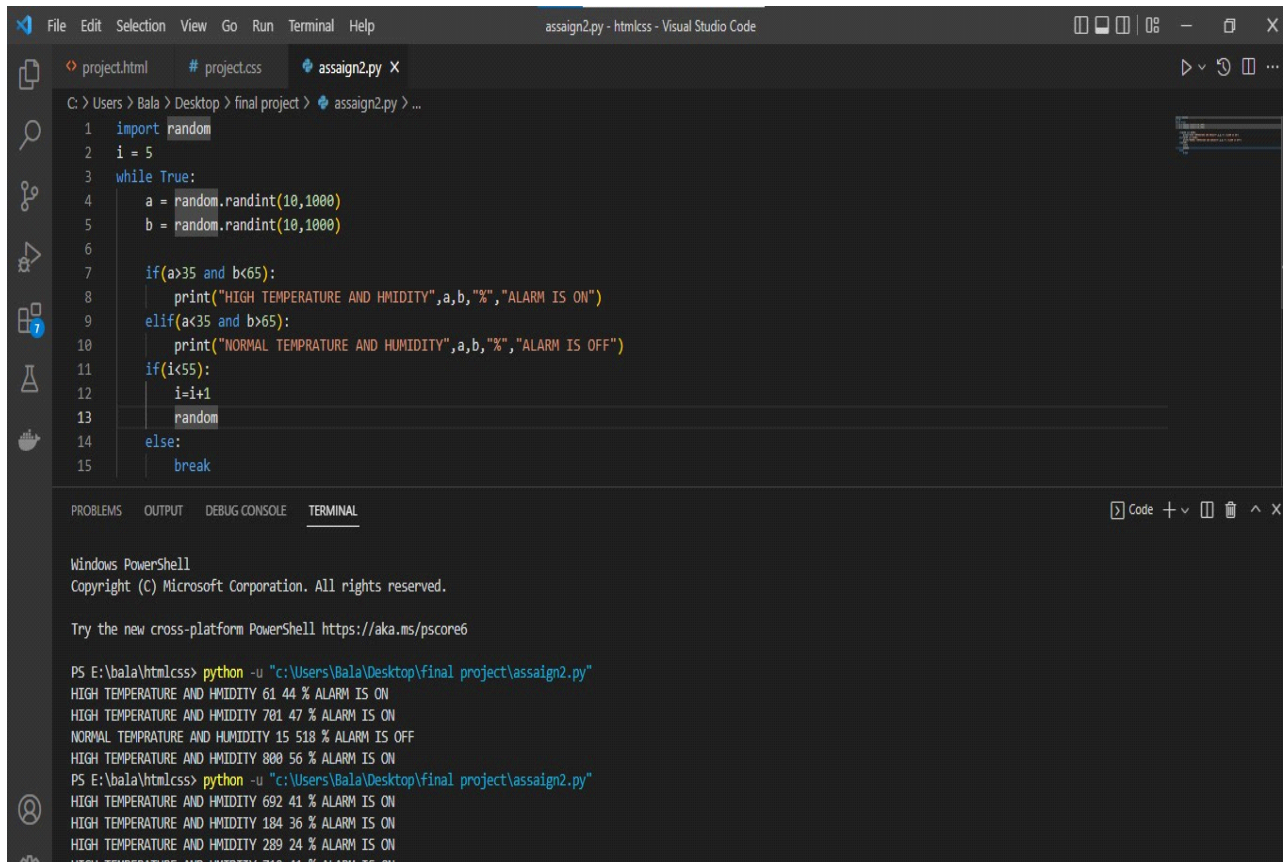
2M4E CODE:

```
import random
i = 0
while True:
    a = random.randint(10,1000)
    b = random.randint(10,1000)
    if(a>35 and b<65):
        print("HIGH TEMPERATURE AND HMIDITY",a,b,"%","ALARM IS ON")
    elif(a<35 and b>65):
        print("NORMAL TEMPRATURE AND HUMIDITY",a,b,"%","ALARM IS OFF")
    if(i<55):
        i=i+1
        random
    else:
        breakimport random
i = 0
while True:
    a = random.randint(10,1000)
    b = random.randint(10,1000)
    if(a>35 and b<65):
        print("HIGH TEMPERATURE AND HMIDITY",a,b,"%","ALARM IS ON")
    elif(a<35 and b>65):
        print("NORMAL TEMPRATURE AND HUMIDITY",a,b,"%","ALARM IS OFF")
    if(i<55):
        i=i+1
        random
```

```
else:
```

```
    break
```

OUTPUT:



The screenshot shows the Visual Studio Code editor with a file named `assign2.py` open. The code is a Python script that generates random temperature and humidity values and checks if an alarm should be on or off based on certain thresholds. The script uses a `while True` loop and a `break` statement to exit the loop.

```
1 import random
2 i = 5
3 while True:
4     a = random.randint(10,1000)
5     b = random.randint(10,1000)
6
7     if(a>35 and b<65):
8         print("HIGH TEMPERATURE AND HMDITY",a,b,"%", "ALARM IS ON")
9     elif(a<35 and b>65):
10        print("NORMAL TEMPRATURE AND HUMIDITY",a,b,"%", "ALARM IS OFF")
11    if(i<55):
12        i=i+1
13        random
14    else:
15        break
```

The terminal window shows the output of the script, which is a series of lines indicating the generated values and the alarm status. The output is as follows:

```
PS E:\bala\htmlcss> python -u "c:\Users\Bala\Desktop\final project\assign2.py"
HIGH TEMPERATURE AND HMDITY 61 44 % ALARM IS ON
HIGH TEMPERATURE AND HMDITY 701 47 % ALARM IS ON
NORMAL TEMPRATURE AND HUMIDITY 15 518 % ALARM IS OFF
HIGH TEMPERATURE AND HMDITY 800 56 % ALARM IS ON
PS E:\bala\htmlcss> python -u "c:\Users\Bala\Desktop\final project\assign2.py"
HIGH TEMPERATURE AND HMDITY 692 41 % ALARM IS ON
HIGH TEMPERATURE AND HMDITY 184 36 % ALARM IS ON
HIGH TEMPERATURE AND HMDITY 289 24 % ALARM IS ON
HIGH TEMPERATURE AND HMDITY 760 41 % ALARM IS ON
```