

ASSIGNMENT-2

Build a python code, Assume u 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.

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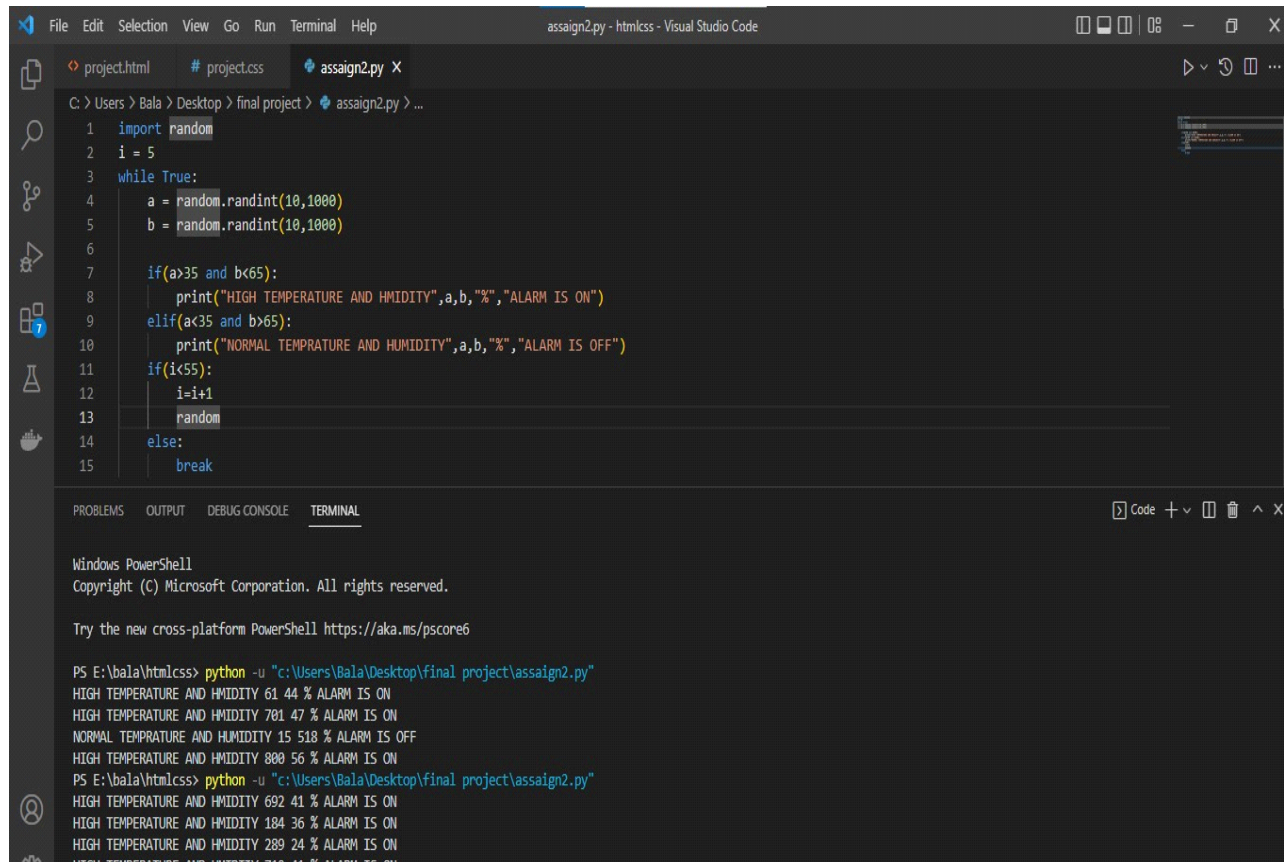
2M4ECODE:

```
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 Python file named `assign2.py` open. The code is a while loop that generates random temperature and humidity values and prints an alarm status based on those values. The terminal window shows the output of running the script, which includes several lines of random data and the corresponding alarm status.

```
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
```

Windows PowerShell
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```
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
```