

PYTHON OUTPUT :

```
import time

import random

i=0

while(i<=2000):

    i=i+1

    time.sleep(2)


    temp=random.randint(0,30)

    humid=random.randint(1,100)

    if temp<=15:

        print(temp,"the temperature is low , ALARM IS OFF")

    elif temp<=25:

        print(temp,"the temperature is normal ,ALARM IS OFF")

    else:

        print(temp,"the temperature is high , ALARM IS ON")

    if humid<=15:

        print(humid,"the humidity is low , ALARM IS OFF")

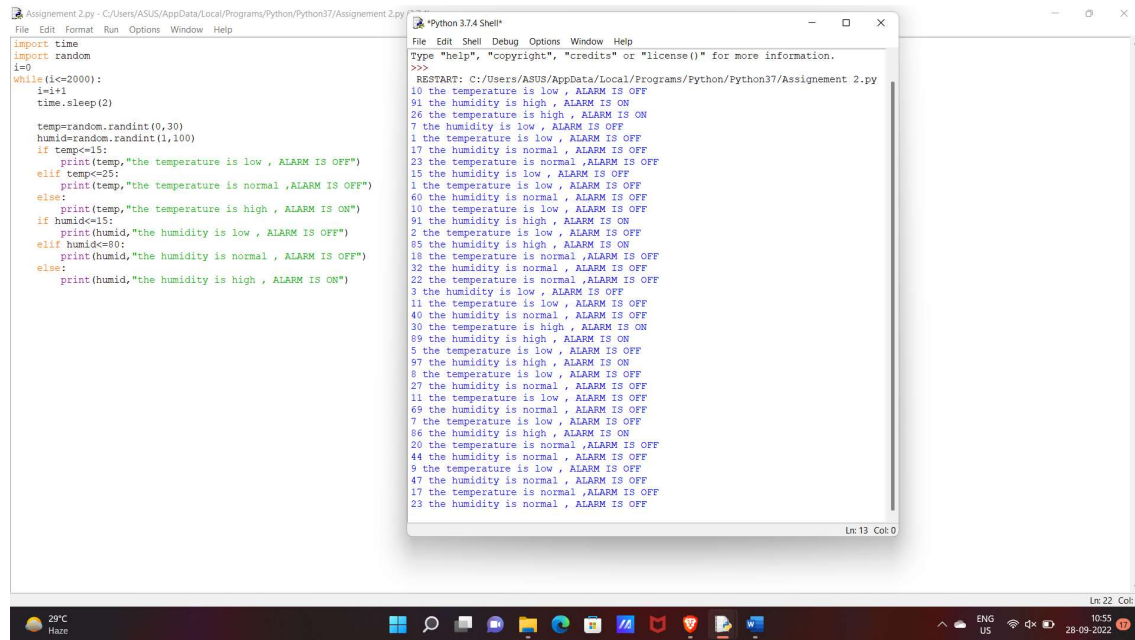
    elif humid<=80:

        print(humid,"the humidity is normal , ALARM IS OFF")

    else:

        print(humid,"the humidity is high , ALARM IS ON")
```

PYTHON OUTPUT :



The image shows a screenshot of a Windows desktop with two windows open. The left window is a text editor titled 'Assignment 2.py' containing a Python script. The right window is a 'Python 3.7.4 Shell' showing the output of the script.

Python Script (Assignment 2.py):

```
import time
import random
i=0
while(i<=2000):
    i=i+1
    time.sleep(2)

    temp=random.randint(0,30)
    humid=random.randint(1,100)
    if temp<=15:
        print(temp,"the temperature is low , ALARM IS OFF")
    elif temp<=25:
        print(temp,"the temperature is normal ,ALARM IS OFF")
    else:
        print(temp,"the temperature is high , ALARM IS ON")
    if humid<=15:
        print(humid,"the humidity is low , ALARM IS OFF")
    elif humid<=80:
        print(humid,"the humidity is normal , ALARM IS OFF")
    else:
        print(humid,"the humidity is high , ALARM IS ON")
```

Python Shell Output:

```
Type "help", "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:/Users/ASUS/AppData/Local/Programs/Python/Python37/Assignment 2.py
10 the temperature is low , ALARM IS OFF
91 the humidity is high , ALARM IS ON
26 the temperature is high , ALARM IS ON
7 the humidity is low , ALARM IS OFF
1 the temperature is low , ALARM IS OFF
17 the humidity is normal , ALARM IS OFF
23 the temperature is normal ,ALARM IS OFF
15 the humidity is low , ALARM IS OFF
1 the temperature is low , ALARM IS OFF
60 the humidity is normal , ALARM IS OFF
10 the temperature is low , ALARM IS OFF
91 the humidity is high , ALARM IS ON
2 the temperature is low , ALARM IS OFF
85 the humidity is high , ALARM IS ON
18 the temperature is normal ,ALARM IS OFF
32 the humidity is normal , ALARM IS OFF
22 the temperature is normal ,ALARM IS OFF
3 the humidity is low , ALARM IS OFF
11 the temperature is low , ALARM IS OFF
40 the humidity is normal , ALARM IS OFF
30 the temperature is high , ALARM IS ON
89 the humidity is high , ALARM IS ON
5 the temperature is low , ALARM IS OFF
97 the humidity is high , ALARM IS ON
8 the temperature is low , ALARM IS OFF
27 the humidity is normal , ALARM IS OFF
11 the temperature is low , ALARM IS OFF
69 the humidity is normal , ALARM IS OFF
7 the temperature is low , ALARM IS OFF
86 the humidity is high , ALARM IS ON
20 the temperature is normal ,ALARM IS OFF
44 the humidity is normal , ALARM IS OFF
9 the temperature is low , ALARM IS OFF
47 the humidity is normal , ALARM IS OFF
17 the temperature is normal ,ALARM IS OFF
23 the humidity is normal , ALARM IS OFF
```