

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")

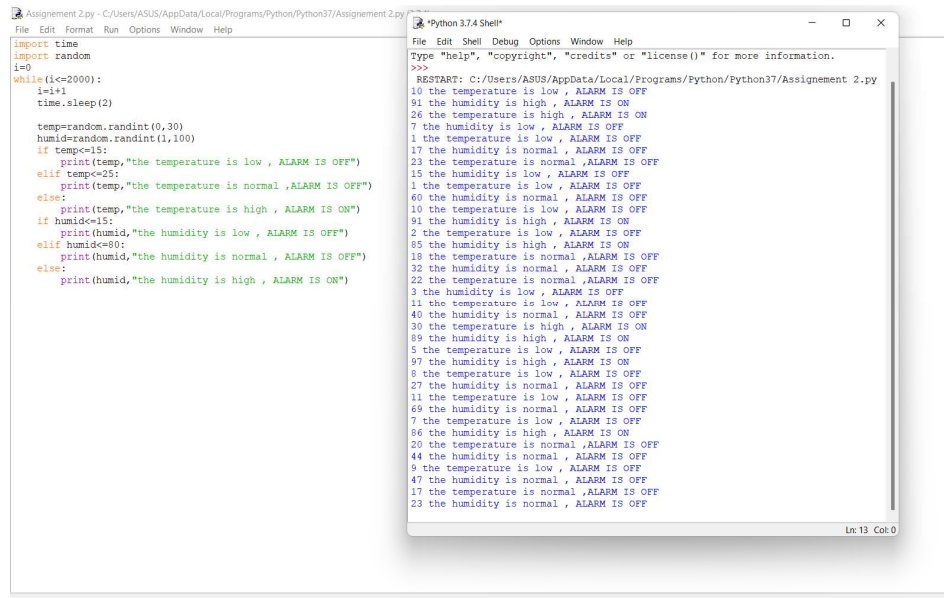
    elif humid<=80:

        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 Python script and its execution output. On the left, a text editor window titled 'Assignment 2.py' contains the following code:

```
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")
```

On the right, a 'Python 3.7.4 Shell' window shows the output of the script. It starts with a prompt 'Type "help", "copyright", "credits" or "license()" for more information.' followed by a 'RESTART' line. The output consists of 2000 lines of status reports, alternating between 'low', 'normal', and 'high' temperature and humidity levels, each followed by an 'ALARM' status (ON or OFF). The status changes occur at intervals of 2 seconds, as indicated by the 'time.sleep(2)' in the script. The output ends with 'Ln:13 Col:0'.