

ASSIGNMENT - 2

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CODE:

```
import time #importing the time lib import random #importing the random lib i=0 #initiating with 0 while (i<5): #iterating only for 5 times i=i+1 time.sleep(1) #1sec temp=random.randint(0,80) humid=random.randint(1,100) if temp<=15: print(temp,"Temperature low") elif temp<=25: print(temp,"Temperature is okay & normal") else: print(temp,"Temperature is high") if humid<=50: print(humid,"The humidity is low") elif humid<=80: print(humid,"The humidity is okay & normal") else: print(humid,"The humidity is high")
```

The screenshot shows two windows from the Python IDLE environment. The left window is a code editor with the following Python script:

```
import time #importing the time lib
import random #importing the random lib
i=0 #initiating with 0
while (i<5): #iterating only for 5 times
    i=i+1
    time.sleep(1) #1sec
    temp=random.randint(0,80)
    humid=random.randint(1,100)
    if temp<=15:
        print(temp,"Temperature low")
    elif temp<=25:
        print(temp,"Temperature is okay & normal")
    else:
        print(temp,"Temperature is high")
    if humid<=50:
        print(humid,"The humidity is low")
    elif humid<=80:
        print(humid,"The humidity is okay & normal")
    else:
        print(humid,"The humidity is high")
```

The right window is the IDLE Shell, showing the execution of the script and its output. The output shows 20 lines of temperature and humidity pairs, each consisting of a number followed by a descriptive string. The lines are numbered from 1 to 20.

```
>>> 1 the temperature is low
2 the temperature is absolutely high
3 the humidity is ok & normal
4 the temperature is absolutely high
5 the humidity is ok & normal
6 the temperature is low
7 the temperature is ok & normal
8 the humidity is low
9 the temperature is ok & normal
10 the humidity is ok & normal
11 the temperature is low
12 the humidity is low
13 the temperature is low
14 the humidity is low
15 the temperature is low
16 the humidity is low
17 the temperature is low
18 the humidity is low
19 the temperature is low
20 the humidity is low
```