

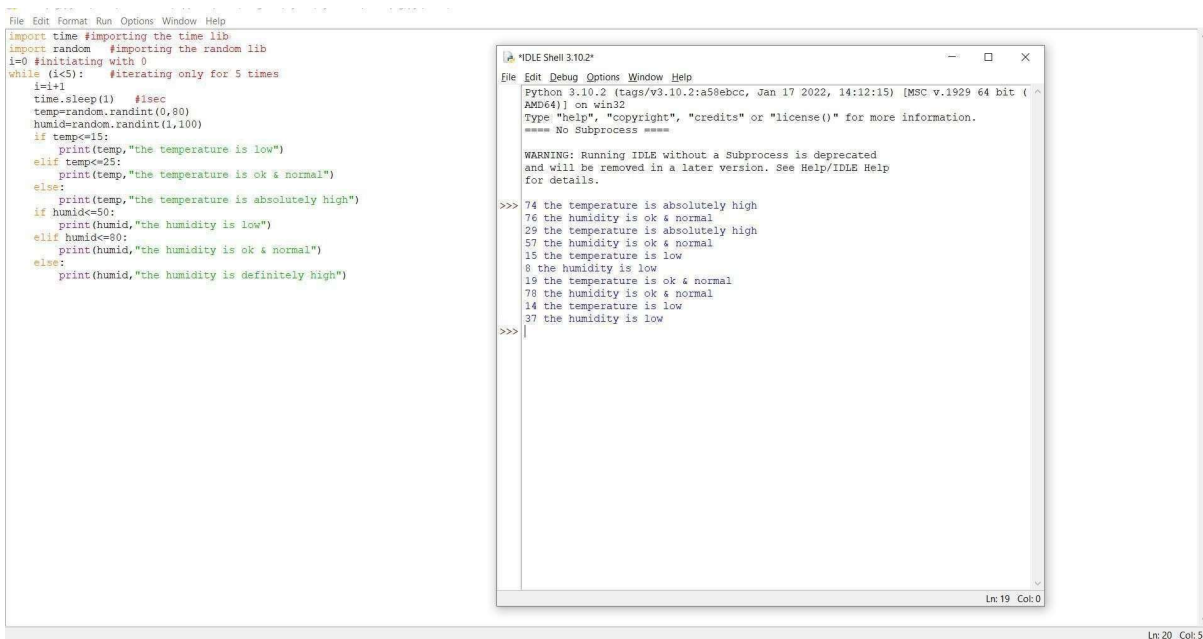
ASSIGNMENT - 2

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CODE:

```
import time
import random
i=0 while (i<5):
i=i+1 time.sleep(1)    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 a Python IDE with two windows. The left window displays the code from the previous block, with some modifications: comments are added to the imports and the while loop, and the humidity logic is simplified. The right window, titled "IDLE Shell 3.10.2", shows the output of the program. It displays a series of temperature and humidity readings over 5 iterations, with some values being truncated by the shell's display limit.

```
File Edit Format Run Options Window Help
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,"the temperature is low")
    elif temp<=25:
        print(temp,"the temperature is ok & normal")
    else:
        print(temp,"the temperature is absolutely high")
    if humid<=50:
        print(humid,"the humidity is low")
    elif humid<=80:
        print(humid,"the humidity is ok & normal")
    else:
        print(humid,"the humidity is definitely high")

File Edit Debug Options Window Help
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> No Subprocess >>>
WARNING: Running IDLE without a Subprocess is deprecated
and will be removed in a later version. See Help/IDLE Help
for details.
>>> 74 the temperature is absolutely high
76 the humidity is ok & normal
29 the temperature is absolutely high
57 the humidity is ok & normal
15 the temperature is low
8 the humidity is low
19 the temperature is ok & normal
78 the humidity is ok & normal
14 the temperature is low
37 the humidity is low
>>>
```