

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:

```
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")
```

The right window is the IDLE Shell, titled "IDLE Shell 3.10.2". It shows the output of the script's execution:

```
* IDLE Shell 3.10.2*
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
10 the humidity is ok & normal
14 the temperature is low
37 the humidity is low
>>>
```

At the bottom of the shell window, status bars indicate "Ln: 19 Col: 0" and "Ln: 20 Col: 54".