

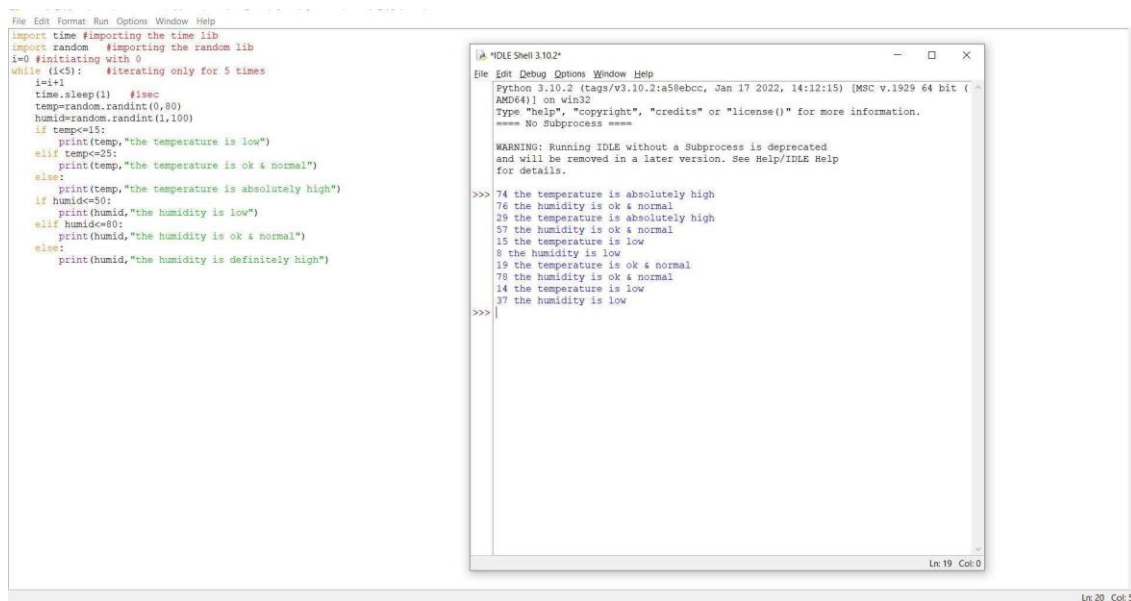
ASSIGNMENT - 2

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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 a Python script in an IDE. The script imports the 'time' and 'random' libraries, initializes a counter 'i' to 0, and enters a 'while' loop that runs 5 times. Inside the loop, it sleeps for 1 second, generates a random temperature between 0 and 80, and a random humidity between 1 and 100. It then uses conditional statements to print the status of temperature and humidity. The output window shows the results of these checks over 5 iterations.

```
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")

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
>>>
```