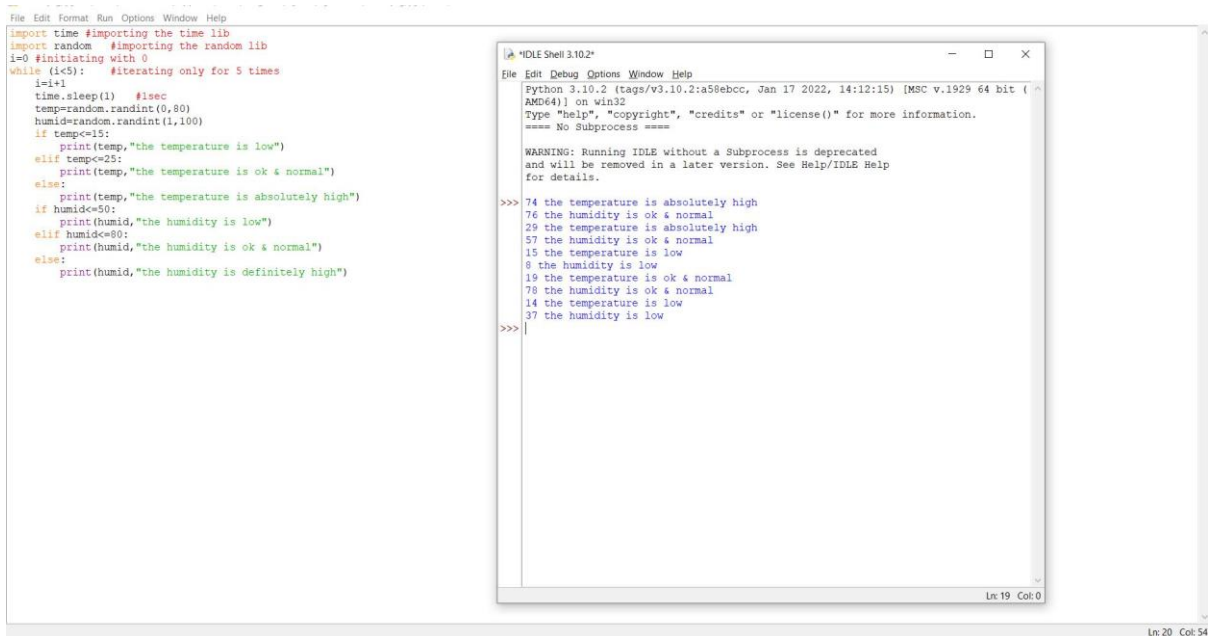


ASSIGNMENT - 2

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 IDE with two windows. The left window displays the code from the assignment, and the right window shows the output of the program. The code is a while loop that runs 5 times, generating random temperature and humidity values and printing them with status messages. The output window shows the results of these iterations, with some values being truncated.

```
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")

IDLE Shell 3.10.2
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
>>>
```