

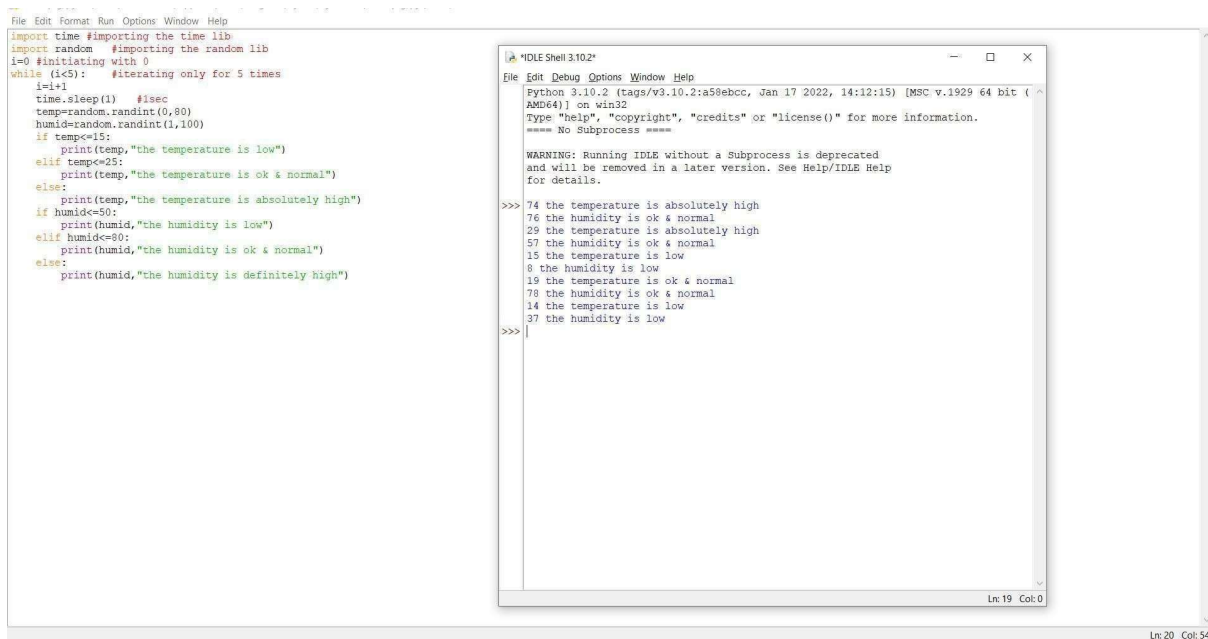
ASSIGNMENT - 2

NAME: SRI VARSHINI. S

REGISTER NUMBER: 714019106109

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 while loop and the random number generation, and the humidity check is simplified. The right window shows the output of the program, which is a list of 10 lines of data, each containing a temperature and a humidity value, along with a status message. The status messages are: 'the temperature is absolutely high', 'the humidity is ok & normal', 'the temperature is absolutely high', 'the humidity is ok & normal', 'the temperature is low', 'the humidity is low', 'the temperature is ok & normal', 'the humidity is ok & normal', 'the temperature is low', and 'the humidity is low'.

```
File Edit Format Run Options Window Help
import time #importing the time lib
import random #importing the random lib
i=0 #initializing 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
>>>
```