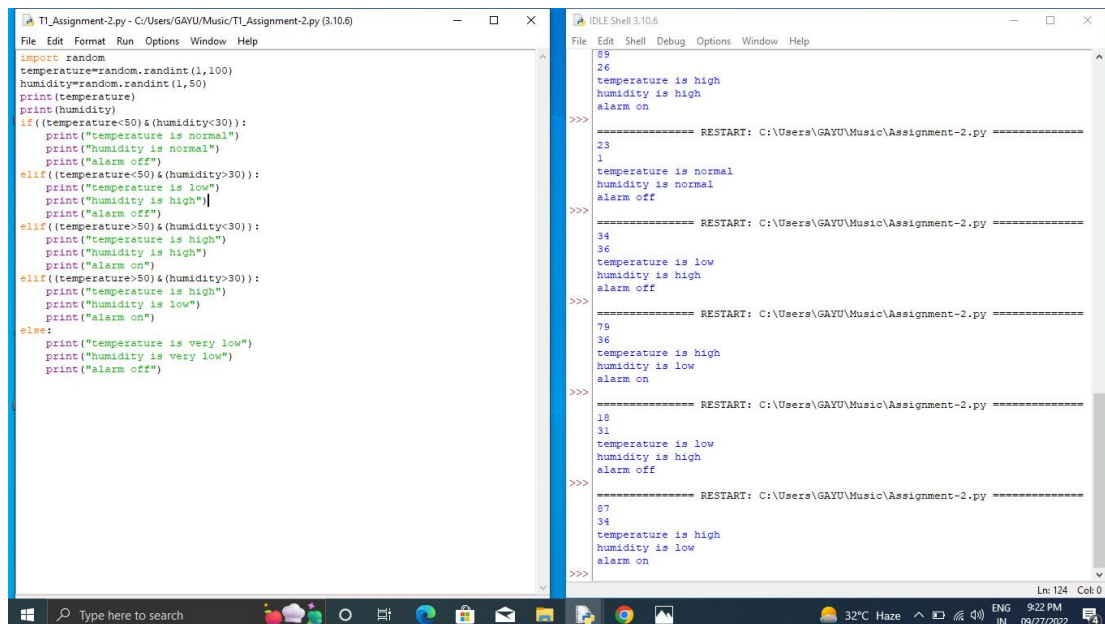


ASSIGNMENT - 2

QUESTION:

Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

CODE & OUTPUT:



The image shows a screenshot of a Python IDE with two windows. The left window displays the Python code for the assignment, and the right window shows the output of the code.

Code (Left Window):

```
import random
temperature=random.randint(1,100)
humidity=random.randint(1,50)
print(temperature)
print(humidity)
if((temperature<50)&(humidity<30)):
    print("temperature is normal")
    print("humidity is normal")
    print("alarm off")
elif((temperature<50)&(humidity>30)):
    print("temperature is low")
    print("humidity is high")
    print("alarm off")
elif((temperature>50)&(humidity<30)):
    print("temperature is high")
    print("humidity is high")
    print("alarm on")
elif((temperature>50)&(humidity>30)):
    print("temperature is high")
    print("humidity is low")
    print("alarm on")
else:
    print("temperature is very low")
    print("humidity is very low")
    print("alarm off")
```

Output (Right Window):

```
89
26
temperature is high
humidity is high
alarm on
>>>
===== RESTART: C:\Users\GAYU\Music\Assignment-2.py =====
23
1
temperature is normal
humidity is normal
alarm off
>>>
===== RESTART: C:\Users\GAYU\Music\Assignment-2.py =====
34
36
temperature is low
humidity is high
alarm off
>>>
===== RESTART: C:\Users\GAYU\Music\Assignment-2.py =====
79
36
temperature is high
humidity is low
alarm on
>>>
===== RESTART: C:\Users\GAYU\Music\Assignment-2.py =====
18
31
temperature is low
humidity is high
alarm off
>>>
===== RESTART: C:\Users\GAYU\Music\Assignment-2.py =====
87
34
temperature is high
humidity is low
alarm on
```