

ASSIGNMENT-2

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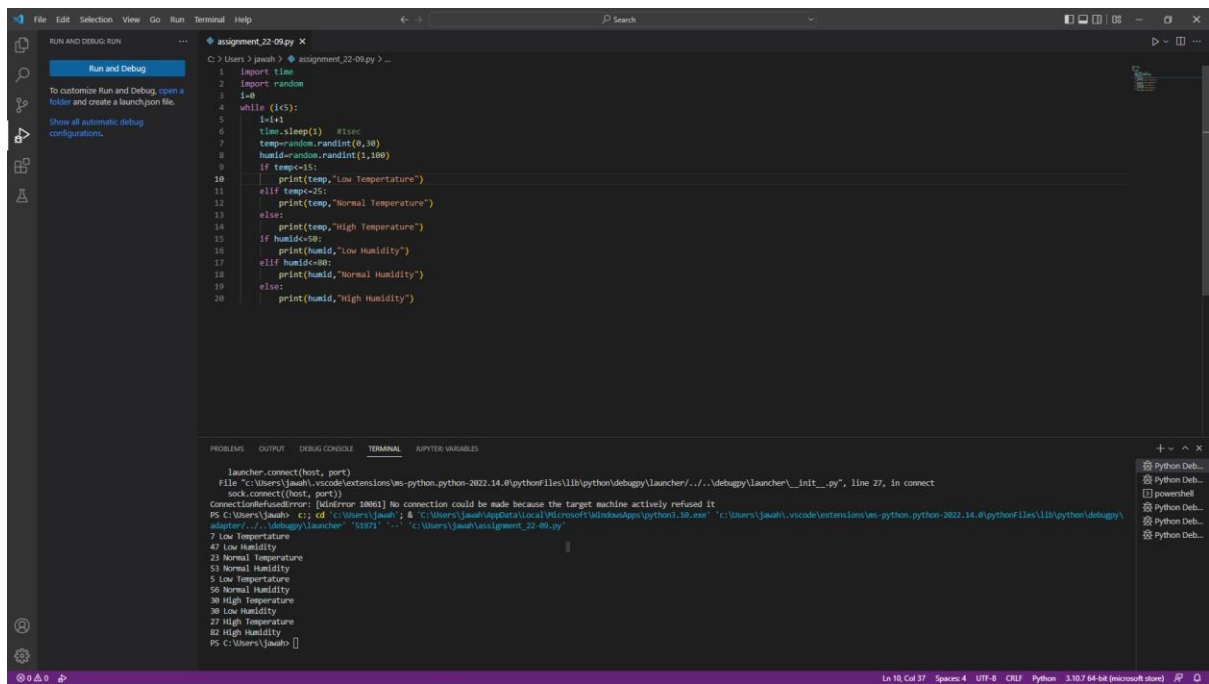
Roll No: 714019106036

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

Code:

```
import time
import random
i=0
while (i<5):
    i=i+1
    time.sleep(1) #1sec
    temp=random.randint(0,30)
    humid=random.randint(1,100)
    if temp<=15:
        print(temp,"Low Tempertature")
    elif temp<=25:
        print(temp,"Normal Temperature")
    else:
        print(temp,"High Temperature")
    if humid<=50:
        print(humid,"Low Humidity")
    elif humid<=80:
        print(humid,"Normal Humidity")
    else:
        print(humid,"High Humidity")
```

Simulated Output:



The screenshot shows a VS Code editor window with a Python file named `assignment_22-09.py`. The script generates random temperature and humidity values and prints them based on specific ranges. The terminal output shows the execution of the script, displaying the generated values and the corresponding status messages.

```
1 import time
2 import random
3 i=0
4 while (i<5):
5     i=i+1
6     time.sleep(1) #1sec
7     temp=random.randint(0,30)
8     humid=random.randint(1,100)
9     if temp<=15:
10        print(temp,"Low Temperature")
11    elif temp<=25:
12        print(temp,"Normal Temperature")
13    else:
14        print(temp,"High Temperature")
15    if humid<=50:
16        print(humid,"Low Humidity")
17    elif humid<=80:
18        print(humid,"Normal Humidity")
19    else:
20        print(humid,"High Humidity")
```

Terminal Output:

```
launcher.connect(host, port)
File "C:\Users\jashah\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\launcher\...\debugpy\launcher\_init_.py", line 27, in connect
sock.connect(host, port)
ConnectionRefusedError: [WinError 10061] No connection could be made because the target machine actively refused it
PS C:\Users\jashah> cd "C:\Users\jashah"; & "C:\Users\jashah\AppData\Local\Microsoft\WindowsApps\python3.10.exe" "C:\Users\jashah\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\
shaders\...\debugpy\launcher" "51371" -c "C:\Users\jashah\assignment_22-09.py"
7 Low Temperature
47 Low Humidity
23 Normal Temperature
53 Normal Humidity
5 Low Temperature
50 Normal Humidity
30 High Temperature
30 Low Humidity
27 High Temperature
82 High Humidity
PS C:\Users\jashah>
```