

IBM ASSIGNMENT 2

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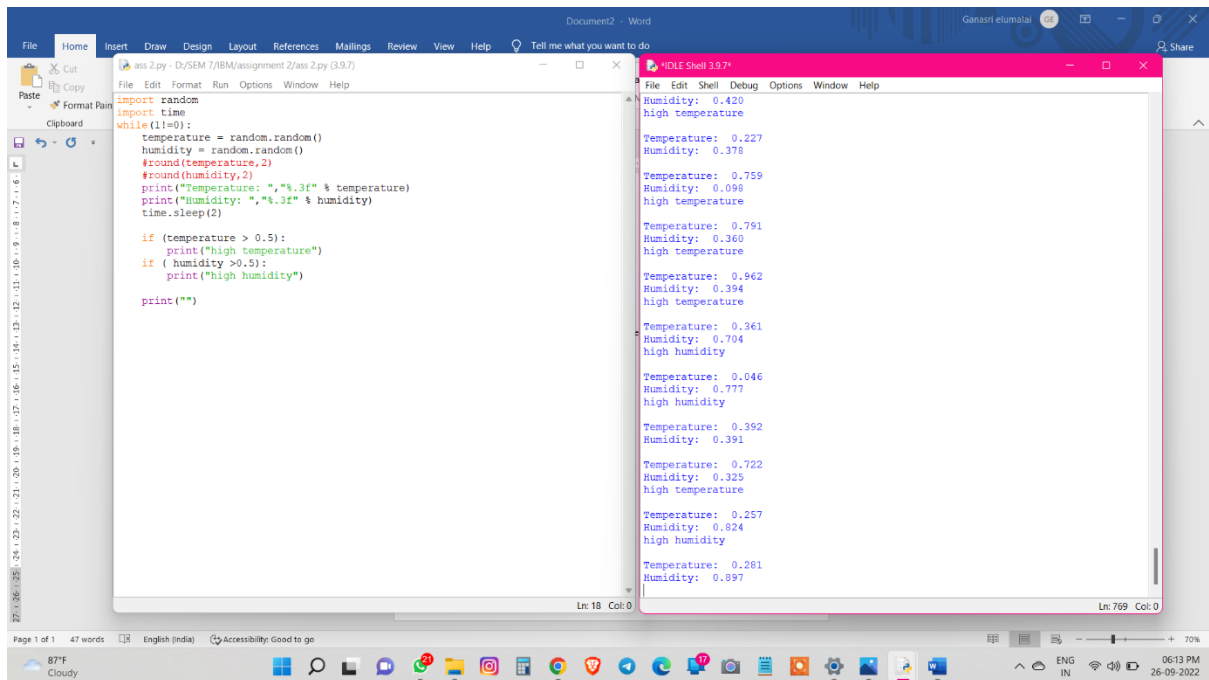
College: Sona College
of Technology

Python code:

```
import random
import time
while(1!=0):
    temperature = random.random()
    humidity = random.random()
    #round(temperature,2)
    #round(humidity,2)
    print("Temperature: ", "%.3f" % temperature)
    print("Humidity: ", "%.3f" % humidity)
    time.sleep(2)

    if (temperature > 0.5):
        print("high temperature")
    if ( humidity >0.5):
        print("high humidity")
```

Output:



The screenshot shows a Python script in a file editor and its execution output in a terminal window. The script generates random temperature and humidity values, rounds them to two decimal places, and prints them. It also includes conditional checks for 'high temperature' and 'high humidity' based on a threshold of 0.5. The output window displays the results of these calculations over 10 iterations.

```
ass 2.py - D:/SEM 7/IBM/assignment 2/ass 2.py (3.9.7)
File Edit Format Run Options Window Help
import random
import time
while (1!=0):
    temperature = random.random()
    humidity = random.random()
    #round(temperature,2)
    #round(humidity,2)
    print("Temperature: ", "%.3f" % temperature)
    print("Humidity: ", "%.3f" % humidity)
    time.sleep(2)

    if (temperature > 0.5):
        print("high temperature")
    if ( humidity >0.5):
        print("high humidity")
    print("")

Ln: 18 Col: 0
```

```
File Edit Shell Debug Options Window Help
Humidity: 0.420
high temperature
Temperature: 0.227
Humidity: 0.378
Temperature: 0.759
Humidity: 0.098
high temperature
Temperature: 0.791
Humidity: 0.360
high temperature
Temperature: 0.962
Humidity: 0.394
high temperature
Temperature: 0.361
Humidity: 0.704
high humidity
Temperature: 0.046
Humidity: 0.777
high humidity
Temperature: 0.392
Humidity: 0.391
Temperature: 0.722
Humidity: 0.325
high temperature
Temperature: 0.257
Humidity: 0.824
high humidity
Temperature: 0.281
Humidity: 0.897
Ln: 769 Col: 0
```

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