

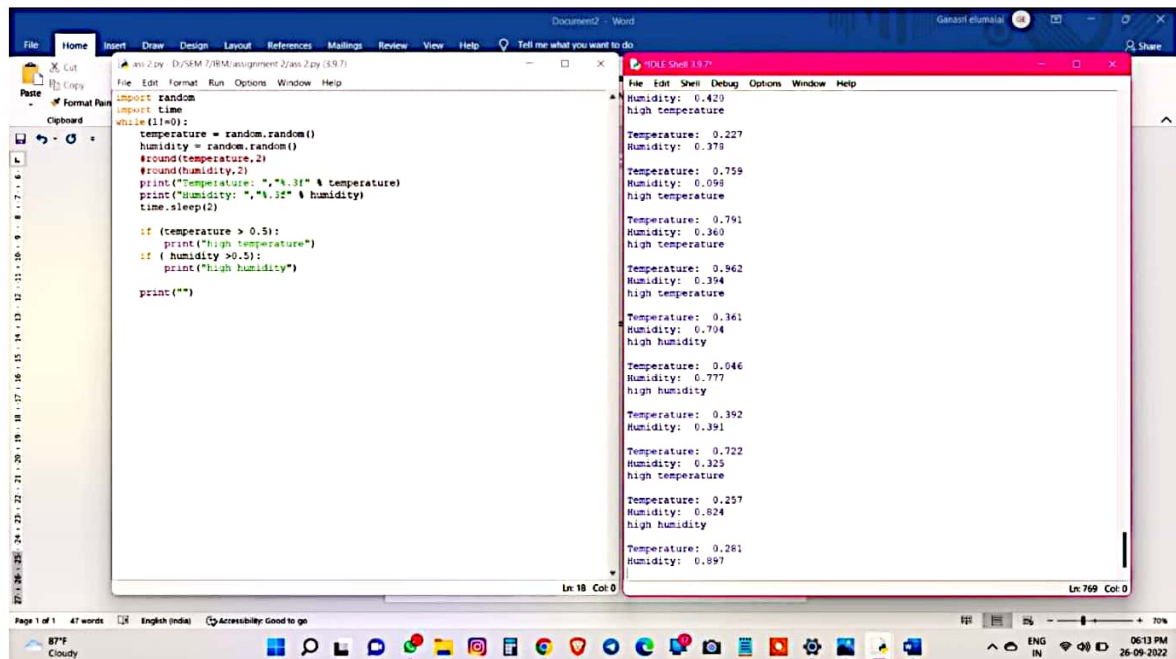
ASSIGNMENT 2

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 displays a Windows desktop environment. In the background, a Microsoft Word document titled 'Document2 - Word' is open. In the foreground, a text editor window titled 'no 2.py' contains a Python script. The script imports the 'random' and 'time' modules and enters a 'while' loop that generates random temperature and humidity values, prints them, and checks for 'high' thresholds. To the right, a 'NODE Shell 3.9.7' terminal window shows the output of the script, displaying pairs of temperature and humidity values with corresponding 'high' status messages. The Windows taskbar at the bottom shows the system clock as 06:13 PM on 26-09-2022, along with various application icons and a weather widget indicating 87°F and 'Cloudy'.

```
File Edit Format Run Options Window Help
no 2.py D:\SEM 7\RM\assignment 2\no 2.py (3.9.7)
File Edit Format Run Options Window Help
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("")
```

```
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: 0.624
high humidity
Temperature: 0.281
Humidity: 0.897
```

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