

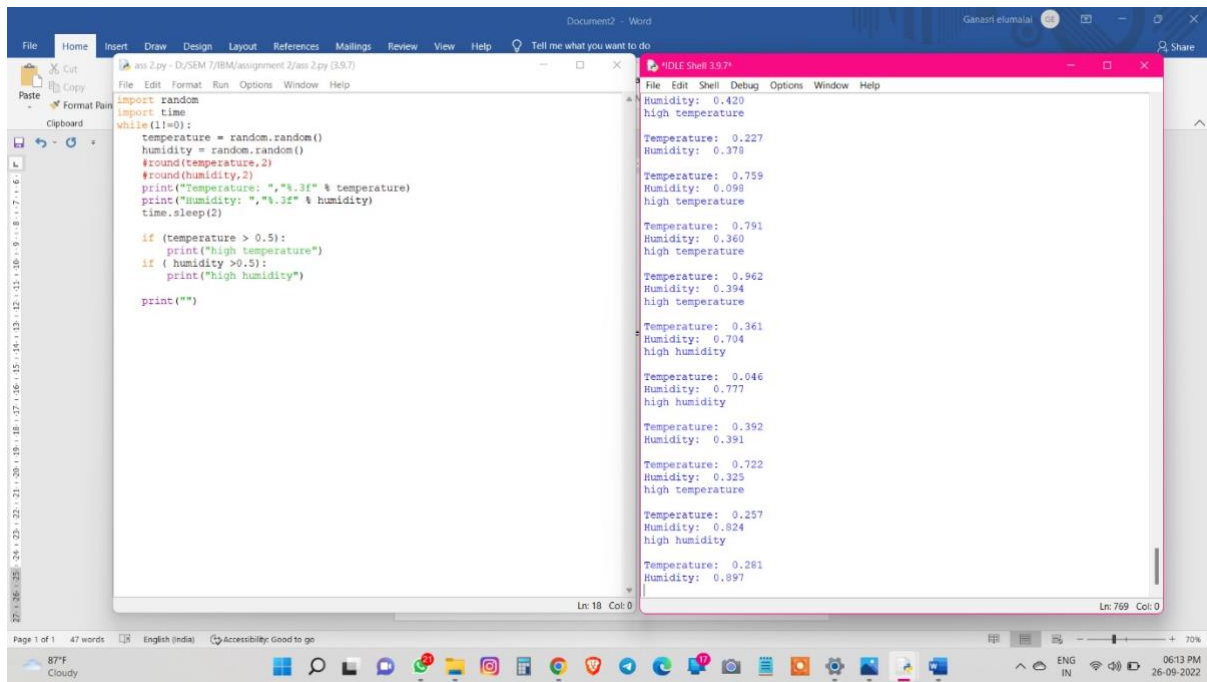
## **ASSIGNMENT 2**

### **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, showing a Python script. The script is as follows:

```
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("")
```

In the foreground, an IDLE Shell window is open, displaying the output of the script. The output shows a series of temperature and humidity readings, each followed by a status message ('high temperature' or 'high humidity') based on the conditional logic in the script. The readings are as follows:

| Temperature | Humidity | Status           |
|-------------|----------|------------------|
| 0.420       | 0.378    | high temperature |
| 0.227       | 0.378    |                  |
| 0.759       | 0.098    | high temperature |
| 0.791       | 0.360    | high temperature |
| 0.962       | 0.394    | high temperature |
| 0.361       | 0.704    | high humidity    |
| 0.046       | 0.777    | high humidity    |
| 0.392       | 0.391    |                  |
| 0.722       | 0.325    | high temperature |
| 0.257       | 0.824    | high humidity    |
| 0.261       | 0.897    |                  |

The IDLE Shell window also shows the file path 'D:\SEM 7\IBM\assignment 2\ass 2.py (3.9.7)' and the status 'Ln: 769 Col: 0'.