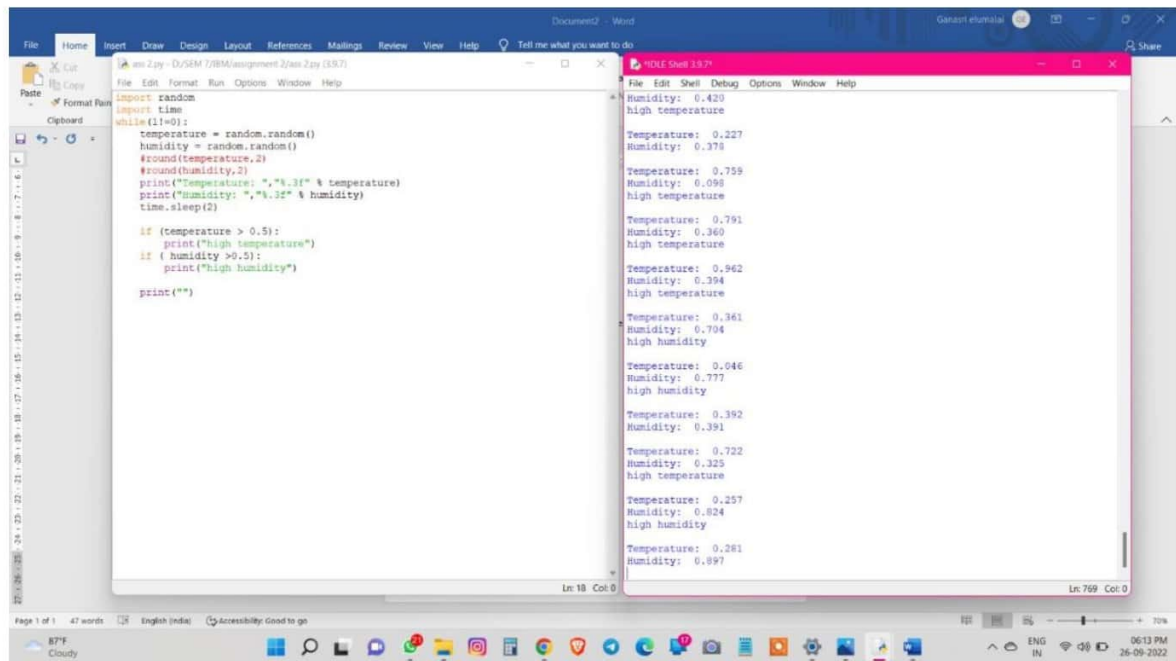# ASSIGNMENT 2

Python code:

```python
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 program (ass 2.py) in IDLE editor and its output in the IDLE Shell.

Code editor (ass 2.py - D:/SEM 7/IBM/assignment 2/ass 2.py (3.9.7)):

```python
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("")
```

IDLE Shell output:

```
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
```