

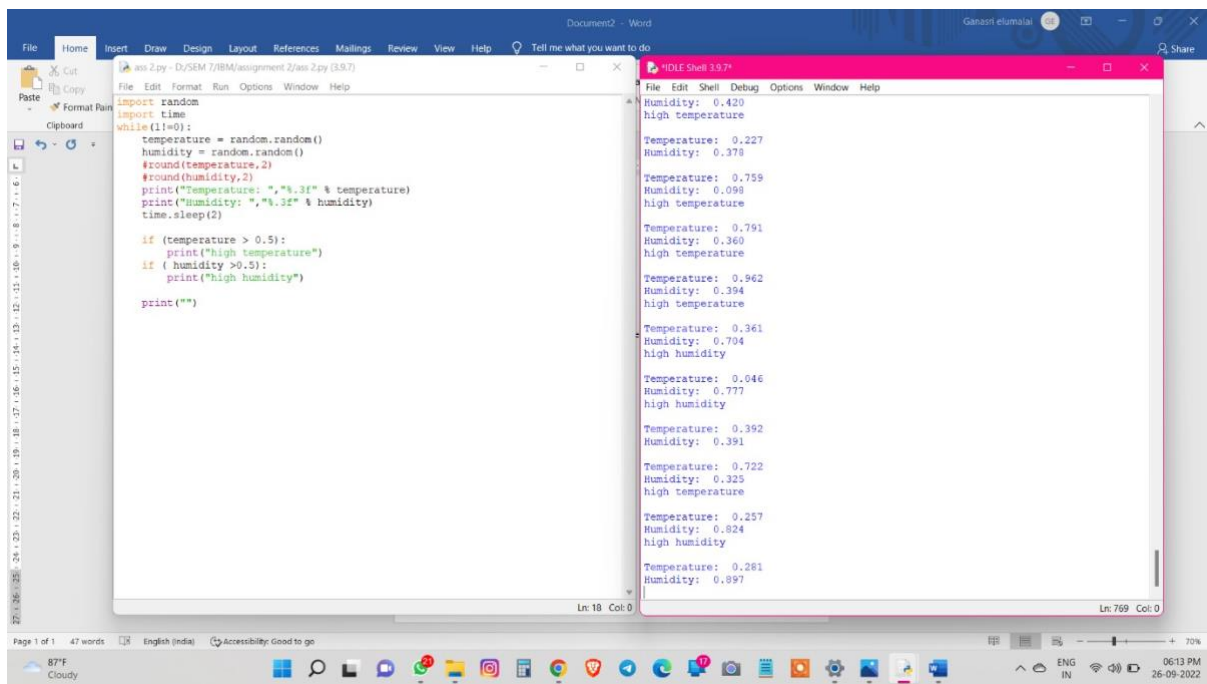
ASSIGNMENT 2

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 shows a Windows desktop with a Microsoft Word document open in the background. In the foreground, the IDLE Shell window is active, displaying the output of a Python script. The script generates random temperature and humidity values and prints them, along with conditional messages for high temperature and humidity.

```
import random
import time
while(1!=0):
    temperature = random.random()
    humidity = random.random()
    #round(temperature,2)
    #round(humidity,2)
    print("Temperature: ", "%0.3f" % temperature)
    print("Humidity: ", "%0.3f" % humidity)
    time.sleep(2)

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

    print("")
```

The output in the IDLE Shell window shows the following sequence of values and messages:

```
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: 0.261
Humidity: 0.897
```

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