

IBM ASSIGNMENT 2

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CODE:

```
import random
import time
while(1!=0):
    temperature = random.random()
    humidity = random.random()
    print("temperature: ", temperature)
    print("humidity: ",humidity)
    time.sleep(2)

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

Simulations:

The screenshot displays the 'codingground' Online Python Compiler (Interpreter) interface. The code editor on the left contains a Python script that generates random temperature and humidity values and prints them. The terminal on the right shows the output of the script, which includes numerical values for temperature and humidity, along with text labels 'high temperature' and 'high humidity' based on conditional checks. The Windows taskbar is visible at the bottom.

```
1 import random
2 import time
3 while(1!=0):
4     temperature = random.random()
5     humidity = random.random()
6     print("temperature: ", temperature)
7     print("humidity: ",humidity)
8     time.sleep(2)
9
10 if (temperature > 0.5):
11     print("high temperature")
12 if ( humidity >0.5):
13     print("high humidity")
```

Terminal Output:

```
temperature: 0.708662575548221
humidity: 0.6144217224532036
high temperature
high humidity
temperature: 0.7726573168056647
humidity: 0.02277424519777893
high temperature
temperature: 0.3869210274777305
humidity: 0.7862193215809686
high humidity
temperature: 0.41962216946268527
humidity: 0.6257496966103167
high humidity
temperature: 0.7401358958911739
humidity: 0.261517303439326
high temperature
temperature: 0.8632595238904294humidity: 0.18959987667944778
high temperature
temperature: 0.14618871383951004
humidity: 0.5112781487336002
high humidity
temperature: 0.03491300596948155
humidity: 0.31770737963523543
temperature: 0.9304412238961564
humidity: 0.4038238904134771
```