

```
File Edit Format Run Options Window Help
import random
import time
while(1!=0):
    temperature = random.random()
    humidity = random.random()
    #round(temperature,2) #round(humidity,2)
    print("Temperature: ", "%.5f" % temperature)
    print("Humidity: ", "%.5f" % humidity)
    time.sleep(2)
    if (temperature > 0.7):
        print("high temperature")
    if ( humidity >0.7):
        print("high humidity")
    print("")
```

high temperature

Temperature: 0.87672  
Humidity: 0.33046  
high temperature

Temperature: 0.67236  
Humidity: 0.16511

Temperature: 0.14797  
Humidity: 0.59022

Temperature: 0.51479  
Humidity: 0.54463

Temperature: 0.25142  
Humidity: 0.12738

Temperature: 0.17346  
Humidity: 0.24678

Temperature: 0.37653  
Humidity: 0.64490

## **IBM ASSIGNMENT – 2**

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### **ASSIGNMENT QUESTION:**

**Build a python code, assume you get temperature and humidity values (generated with random function to a variable)and write a condition to continuously detect alarm in case of high temperature.**

## **PYTHON CODE:**

```
import random
import time
while(1!=0):
    temperature = random.random()
    humidity = random.random()
    #round(temperature,2) #round(humidity,2)
    ("print Temperature: ", "%.5f" % temperature)
    print("Humidity: ", "%.5f" % humidity)
    time.sleep(2)
    if (temperature > 0.7):
        print("high temperature")
    if ( humidity >0.7):
        print("high humidity")
    print("")
```

# EXECUTION RESULT

## Program

```
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import random
import time
while(1!=0):
    temperature = random.random()
    humidity = random.random()
    #round(temperature,2) #round(humidity,2)
    print("Temperature: ", "%.5f" % temperature)
    print("Humidity: ", "%.5f" % humidity)
    time.sleep(2)
    if (temperature > 0.7):
        print("high temperature")
    if ( humidity >0.7):
        print("high humidity")
    print("")
```

## Output

```
Temperature: 0.81853
Humidity: 0.97255
high temperature
high humidity
```

```
Temperature: 0.15472
Humidity: 0.05986
```

```
Temperature: 0.62464
Humidity: 0.32342
```

```
Temperature: 0.83487
Humidity: 0.76008
high temperature
high humidity
```

```
Temperature: 0.14701
Humidity: 0.48039
```

```
Temperature: 0.79227
Humidity: 0.24788
high temperature
```

```
Temperature: 0.87672
Humidity: 0.33046
high temperature
```

```
Temperature: 0.67236
Humidity: 0.16511
```

```
Temperature: 0.14797
Humidity: 0.59022
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Temperature: 0.51479
Humidity: 0.54463
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Temperature: 0.37653
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