NAME	SYED AKRAM
IBM ID	718019L143

QUESTION:

Assignment 2:

Build a python code, Assume we 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.

CODE:

```
import random
temp = []
humidity = []

temp_threshold = 75
humidity_threshold= 75
for i in range(100):
    tempx = random.uniform(20, 105)
    temp.append(tempx)
    humidityx = random.uniform(20, 105)
    humidity.append(humidityx)
print("TEMP VALUES")
print("****")
for i in range(len(temp)):
        if(temp[i]>temp_threshold):
            print("Alarm : ", temp[i])
        else:
            print('Safe: ' , temp[i])
print("****")
print("****")
print("HUMIDITY VALUES")
print("****")
for i in range(len(humidity)):
    if (humidity[i] > humidity_threshold):
        print('Alarm: ', temp[i])
    else:
        print('Safe: ' , temp[i])
print("****")
print("****")
#print(humidity)
#print(temp)
```

OUTPUT:

```
TEMP VALUES
****
Safe:  15.928353811558207
Safe:  60.38928979511315
Safe:  29.86246761821746
Safe:  46.0790479178759
Safe:  63.33076970475293
Safe:  48.41306033649886
Safe:  10.791952123795962
Safe:  20.608553266964414
Safe:  79.80739313579276
Safe:  69.0023338697292
```

```
HUMIDITY VALUES
****
Safe:  43.373456423230095
Safe:  72.34707565943425
Alarm:  94.26246898812684
Safe:  28.074511455362252
Safe:  92.30361251236721
Safe:  92.25636895592407
Safe:  60.06310338448177
Safe:  34.807623463779166
Safe:  81.99614055558149
Safe:  57.868397943256085
```