NAME	ABDUL ZUBAIR
IBM ID	718020L401

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
****
Alarm :  85.28462181879458
Alarm :  86.7269589736622
Safe:  66.84912536642966
Safe:  46.85137976742597
Alarm :  101.48598914706402
Alarm :  102.0824146520058
Alarm :  91.75100928705855
Alarm :  81.28981351499357
Alarm :  80.40151007454423
Safe:  31.069620099601647
```

```
HUMIDITY VALUES
****
Safe:  85.28462181879458
Safe:  86.7269589736622
Safe:  66.84912536642966
Safe:  46.85137976742597
Safe:  101.48598914706402
Safe:  102.0824146520058
Alarm:  91.75100928705855
Safe:  81.28981351499357
Alarm:  80.40151007454423
Alarm:  31.069620099601647
```