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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(30, 105)
   temp.append(tempx)
   humidityx = random.uniform(30, 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:  35.30804492533259
Alarm :  94.90121744693603
Alarm :  86.86531015058436
Alarm :  89.02383637072674
Alarm :  97.379340359413
Alarm :  98.78370037186296
Safe:  41.15713906131562
Safe:  73.82956215529538
Alarm :  97.79115241086343
Alarm :  80.58146366063225
```

```
HUMIDITY VALUES
****
Alarm:  35.30804492533259
Safe:  94.90121744693603
Safe:  86.86531015058436
Safe:  89.02383637072674
Alarm:  97.379340359413
Safe:  98.78370037186296
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