assignment.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python37/assignment.py (3.7.0)

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```
import random
import time
thresh1=int(input("Enter the threshold value for temperature:"))
thresh2=int(input("Enter the threshold value for humidity:"))
hu=0
tp=0

while(True):
    temp=random.uniform(1,100)
    humidity=random.uniform(1,50)
    print("temperature is : {0:.2f}".format(temp))
    print("humidity is : {0:.2f} %".format(humidity))
    time.sleep(1)
    if temp>=thresh1 and humidity<=thresh2:
        tp=1
        hu=1
        print("\nHIGH ALERT\nHumidity alarm and Temperature alarm are ON \n")
        time.sleep(2)
    elif humidity<=thresh2:
        tp=0
        hu=1
        print("\nHumidity alarm is ON and Temperature alarm is OFF \n")
        time.sleep(2)
    elif temp>=thresh1:
        tp=1
        hu=0
        print("\nHumidity alarm is OFF and Temperature alarm is ON \n")
        time.sleep(2)
    else:
        tp=0
        hu=0
        print("\nBoth alarms are OFF \n")
        time.sleep(2)
```

Python 3.7.0 Shell

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```
temperature is : 52.73
humidity is : 1.22 %

HIGH ALERT
Humidity alarm and Temperature alarm are ON

temperature is : 86.82
humidity is : 34.12 %

Humidity alarm is OFF and Temperature alarm is ON

temperature is : 59.61
humidity is : 24.07 %

HIGH ALERT
Humidity alarm and Temperature alarm are ON

temperature is : 79.45
humidity is : 19.47 %

HIGH ALERT
Humidity alarm and Temperature alarm are ON

temperature is : 11.76
humidity is : 22.45 %

Humidity alarm is ON and Temperature alarm is OFF

temperature is : 9.15
humidity is : 16.90 %

Humidity alarm is ON and Temperature alarm is OFF

temperature is : 72.94
humidity is : 35.22 %

Humidity alarm is OFF and Temperature alarm is ON
```