```python
print("TEMPERATURE AND HUMIDITY ALERT SYSTEM")
import random
a=random.randint(1,100)
b=random.randint(1,50)
if((a<=40)&(b<=30)):
    print("TEMP IS MODERATE:",a,"%")
    print("HUM IS MODERATE:",b,"%")
    print("ALARM OFF")
elif(a>=40):
    if((a>=40)&(b>=30)):
        print("Temp is high:",a,"%")
        print("Hum is high:",a,"%")
        print("Alarm On")
    else:
        print("Temp is high:",a,"%")
        print("Hum is low:",b,"%")
        print("Alarm Off")
else:
    print("TEMP IS TOO LOW:",a,"%")
    print("HUM IS TOO LOW:",b,"%")
    print("ALARM OFF")
```

```
TEMPERATURE AND HUMIDITY ALERT SYSTEM
Temp is high: 72 %
Hum is low: 29 %
Alarm Off

[Program finished]
```

```
TEMPERATURE AND HUMIDITY ALERT SYSTEM
TEMP IS MODERATE: 28 %
HUM IS MODERATE: 16 %
ALARM OFF

[Program finished]
```

```
TEMPERATURE AND HUMIDITY ALERT SYSTEM
TEMP IS TOO LOW: 34 %
HUM IS TOO LOW: 35 %
ALARM OFF

[Program finished]
```

```
TEMPERATURE AND HUMIDITY ALERT SYSTEM
Temp is high: 52 %
Hum is high: 52 %
Alarm On

[Program finished]
```