

IBM ASSESSMENT

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CODE:

```
import time
import random
i=0
while(i<=2000):
    i=i+1
    time.sleep(2)

    temp=random.randint(0,30)
    humid=random.randint(1,100)
    if temp<=15:
        print(temp,"the temperature is low , ALARM OFF")
    elif temp<=25:
        print(temp,"the temperature is normal ,ALARM OFF")
    else:
        print(temp,"the temperature is high , ALARM ON")
    if humid<=15:
        print(humid,"the humidity is low , ALARM OFF")
    elif humid<=80:
        print(humid,"the humidity is normal , ALARM OFF")
    else:
        print(humid,"the humidity is high , ALARM ON")
```

OUTPUT:

```
temperature.py - E:\BM\python\temperature.py (3.9.8)
File Edit Format Run Options Window Help

import time
import random
i=0
while(i<2000):
    i=i+1
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    temp=random.randint(0,30)
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    if humid<=15:
        print(humid,"the humidity is low , ALARM OFF")
    elif humid<=80:
        print(humid,"the humidity is normal , ALARM OFF")
    else:
        print(humid,"the humidity is high , ALARM ON")

"IDLE Shell 3.9.8"
File Edit Shell Debug Options Window Help
68 the humidity is normal , ALARM OFF
0 the temperature is low , ALARM OFF
5 the humidity is low , ALARM OFF
11 the temperature is low , ALARM OFF
29 the humidity is normal , ALARM OFF
18 the temperature is normal ,ALARM OFF
57 the humidity is normal , ALARM OFF
0 the temperature is low , ALARM OFF
16 the humidity is normal , ALARM OFF
21 the temperature is normal ,ALARM OFF
72 the humidity is normal , ALARM OFF
12 the temperature is low , ALARM OFF
77 the humidity is normal , ALARM OFF
2 the temperature is low , ALARM OFF
83 the humidity is high , ALARM ON
0 the temperature is low , ALARM OFF
61 the humidity is normal , ALARM OFF
7 the temperature is low , ALARM OFF
4 the humidity is low , ALARM OFF
15 the temperature is low , ALARM OFF
22 the humidity is normal , ALARM OFF
21 the temperature is normal ,ALARM OFF
21 the humidity is normal , ALARM OFF
23 the temperature is normal ,ALARM OFF
81 the humidity is high , ALARM ON
18 the temperature is normal ,ALARM OFF
62 the humidity is normal , ALARM OFF
18 the temperature is normal ,ALARM OFF
21 the humidity is normal , ALARM OFF
23 the temperature is normal ,ALARM OFF
37 the humidity is normal , ALARM OFF
17 the temperature is normal ,ALARM OFF
40 the humidity is normal , ALARM OFF
29 the temperature is high , ALARM ON
16 the humidity is normal , ALARM OFF
13 the temperature is low , ALARM OFF
33 the humidity is normal , ALARM OFF
0 the temperature is low , ALARM OFF
43 the humidity is normal , ALARM OFF

Ln: 5 Col: 0
```