

Assignment 2

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CODE:

```
import random

from time import sleep

while True:

    sleep(5)

    temperature = random.randrange(0, 200, 3)

    print("\nCurrent Temperature =",temperature,end="°C\n")

    humidity = random.randrange(0, 100, 6)

    print("Current Humidity   =",humidity,end="%\n\n")

    if temperature >=38:

        print("Temperature >> High - Alarm ON")

    if humidity >= 75:

        print("Humidity   >> High - Alarm ON")

    if temperature <=38:

        print("Temperature >> Low  - Alarm OFF")

    if humidity <= 75:

        print("Humidity   >> Low  - Alarm OFF")
```

OUTPUT:

main.py

Run

Clear

1 # Online Python compiler (interpreter) to run Python online.
2 # Write Python 3 code in this online editor and run it.
3 import random
4 from time import sleep
5
6 while True:
7 sleep(5)
8 temperature = random.randrange(0, 200, 3)
9 print("\nCurrent Temperature =", temperature, end="°C\n")
10 humidity = random.randrange(0, 100, 6)
11 print("Current Humidity =", humidity, end="%\n\n")
12 if temperature >= 38:
13 print("Temperature >= High - Alarm ON")
14 if humidity >= 75:
15 print("Humidity >= High - Alarm ON")
16 if temperature <= 38:
17 print("Temperature <= Low - Alarm OFF")
18 if humidity <= 75:
19 print("Humidity >= Low - Alarm OFF")

Shell

Current Temperature = 69°C
Current Humidity = 48%

Temperature >= High - Alarm ON
Humidity >= Low - Alarm OFF
Current Temperature = 147°C
Current Humidity = 18%

Temperature >= High - Alarm ON
Humidity >= Low - Alarm OFF
Current Temperature = 117°C
Current Humidity = 12%

Temperature >= High - Alarm ON
Humidity >= Low - Alarm OFF
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