

IOT ASSIGNMEN-2T

TOPIC: Assignment on temperature and humidity sensing and alarm automation using python

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CODE:

```
import time

i=0

while (i<=10):

    i=i+1

    time.sleep(1)

    import random

    temperature=random.randint(0,80)

    humidity=random.randint(1,100)

    if temperature<=15:

        print(temperature, "temperature is low")

    elif temperature<=25:

        print(temperature, "temperature is normal")

    else :

        print(temperature, "Warning alarm:High temperature")

    if humidity<=30:

        print(humidity, "humidity is low ")

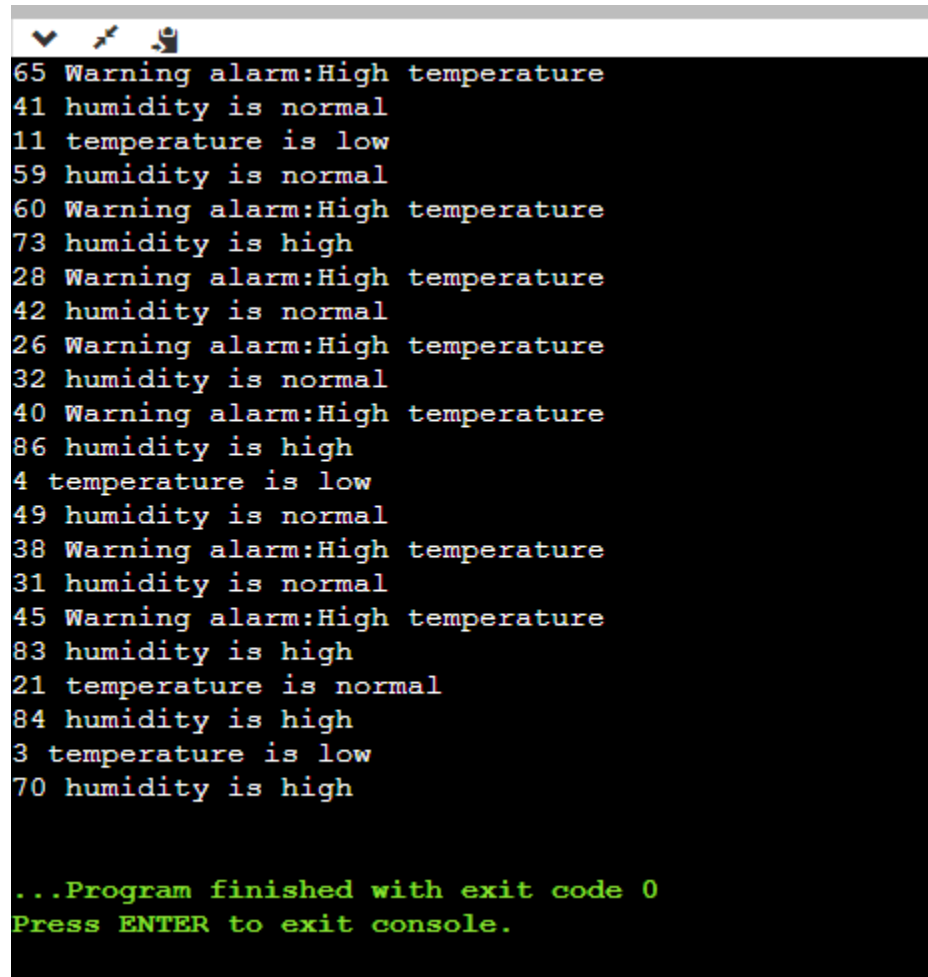
    elif humidity<=60:
```

```
print(humidity, "humidity is normal")
```

else :

```
print(humidity, "humidity is high")
```

Output:

A screenshot of a terminal window with a dark background. The window has a title bar with standard icons (minimize, maximize, close) on the left. The output text is as follows:

```
65 Warning alarm:High temperature
41 humidity is normal
11 temperature is low
59 humidity is normal
60 Warning alarm:High temperature
73 humidity is high
28 Warning alarm:High temperature
42 humidity is normal
26 Warning alarm:High temperature
32 humidity is normal
40 Warning alarm:High temperature
86 humidity is high
4 temperature is low
49 humidity is normal
38 Warning alarm:High temperature
31 humidity is normal
45 Warning alarm:High temperature
83 humidity is high
21 temperature is normal
84 humidity is high
3 temperature is low
70 humidity is high

...Program finished with exit code 0
Press ENTER to exit console.
```