

IOT ASSIGNMEN-2T

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

NAME: Gokulakrishnan S

CODE:

```
import time

i=0

while (i<=10):

    i=i+1

    time.sleep(1)

    import random

    temperature=random.randint(0,50)

    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):The temperature is high")

    if humidity<=30:

        print(humidity, "humidity is low ")

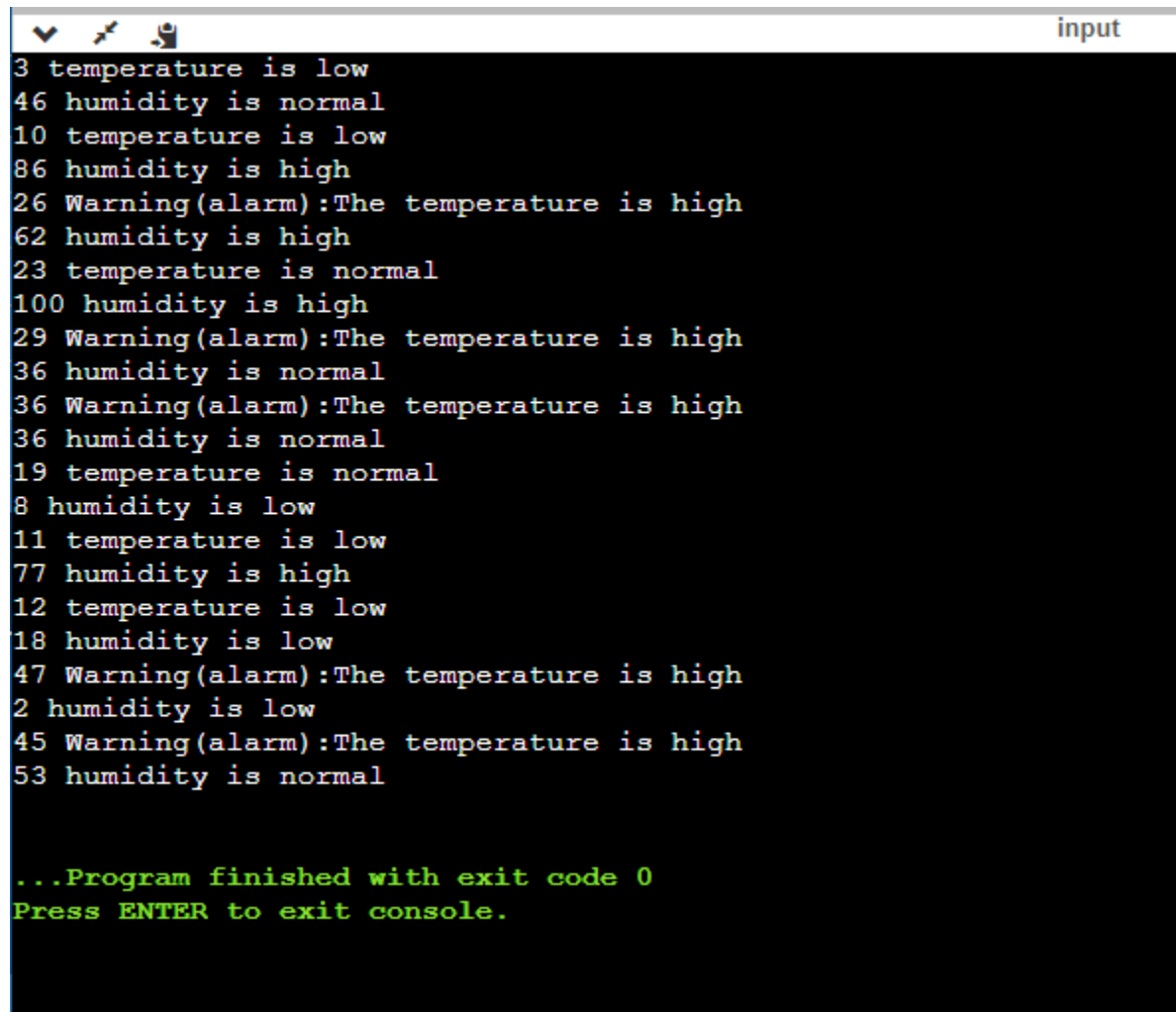
    elif humidity<=60:
```

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

```
else :
```

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

Output:

A screenshot of a terminal window with a dark background. The title bar at the top shows a checkmark icon, a cursor icon, and a magnifying glass icon, followed by the text "input". The terminal displays a series of lines of text, each preceded by a line number. The text includes status reports for temperature and humidity, and warning messages for high temperature. The program ends with a green message indicating successful completion and a prompt to press ENTER to exit the console.

```
3 temperature is low
46 humidity is normal
10 temperature is low
86 humidity is high
26 Warning(alarm):The temperature is high
62 humidity is high
23 temperature is normal
100 humidity is high
29 Warning(alarm):The temperature is high
36 humidity is normal
36 Warning(alarm):The temperature is high
36 humidity is normal
19 temperature is normal
8 humidity is low
11 temperature is low
77 humidity is high
12 temperature is low
18 humidity is low
47 Warning(alarm):The temperature is high
2 humidity is low
45 Warning(alarm):The temperature is high
53 humidity is normal

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