

## **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(0,70)

    humidity=random.randint(1,100)

    if temperature<=20:

        print(temperature, "temperature is low")

    elif temperature<=25:

        print(temperature, "temperature is normal")

    else :

        print(temperature, "alarm:Warning The temperature is high")

    if humidity<=30:

        print(humidity, "humidity is low ")

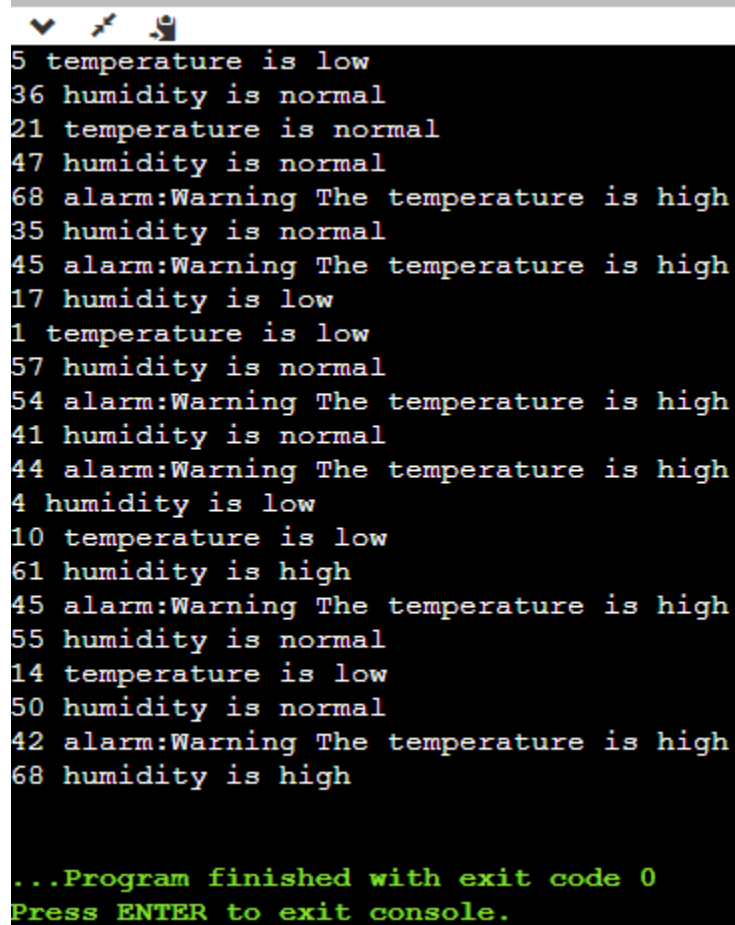
    elif humidity<=60:
```

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

else :

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

Output:

A terminal window with a dark background and light-colored text. The window has a title bar with standard OS icons (minimize, maximize, close) on the left. The output consists of multiple lines of text, some of which are repeated. The text is as follows:

```
5 temperature is low
36 humidity is normal
21 temperature is normal
47 humidity is normal
68 alarm:Warning The temperature is high
35 humidity is normal
45 alarm:Warning The temperature is high
17 humidity is low
1 temperature is low
57 humidity is normal
54 alarm:Warning The temperature is high
41 humidity is normal
44 alarm:Warning The temperature is high
4 humidity is low
10 temperature is low
61 humidity is high
45 alarm:Warning The temperature is high
55 humidity is normal
14 temperature is low
50 humidity is normal
42 alarm:Warning The temperature is high
68 humidity is high

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