

IOT ASSIGNMEN-2T

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Project Name	Real Time River Water Quality Monitoring and Control System

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

NAME: ANBALAGAN.A

CODE:

```
import time
```

```
i=0
```

```
while (i<=10):
```

```
    i=i+1
```

```
    time.sleep(1
```

```
)
```

```
import random
```

```
temperature=random.randint(0,30)
```

```
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:High
Temperature") if humidity<=30:

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

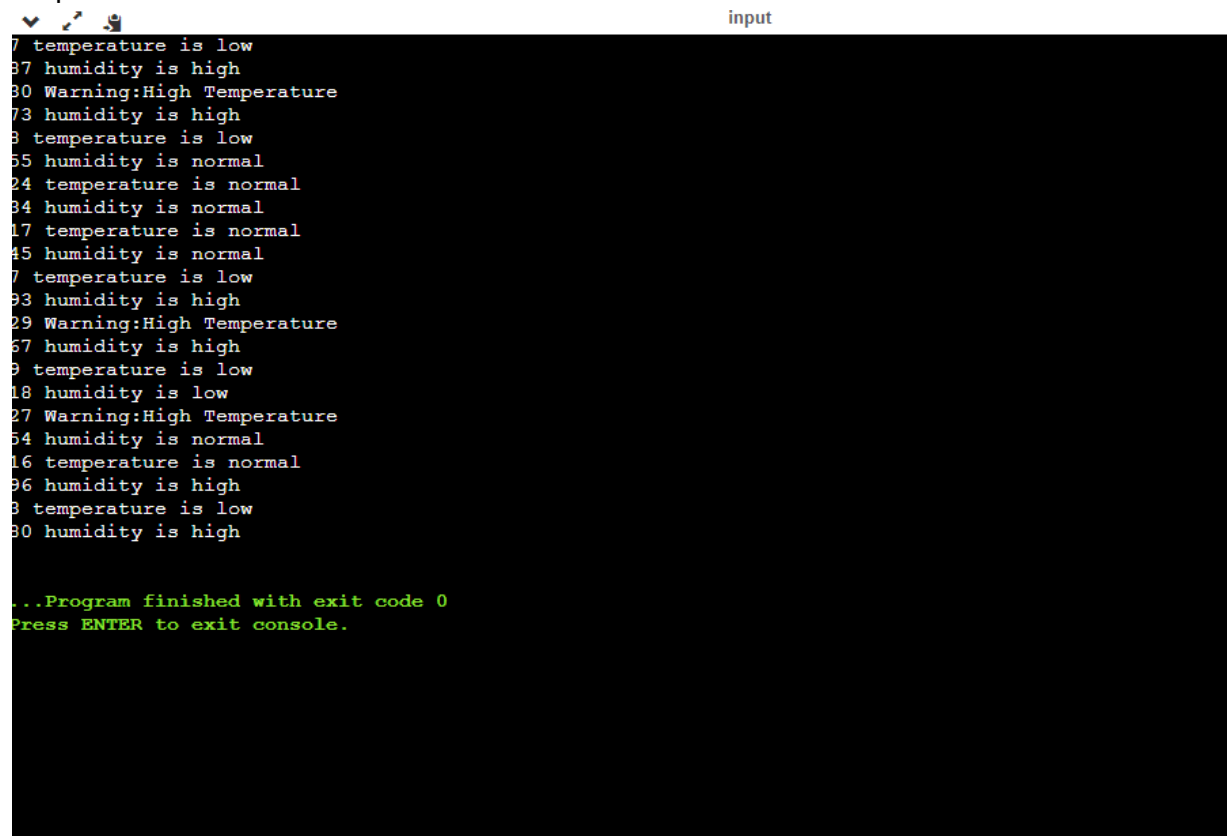
```
elif humidity<=60:

    print(humidity, "humidity is normal")

else :

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

Output:

A screenshot of a terminal window with a black background and white text. The window has a title bar at the top with a small icon on the left and the word "input" on the right. The terminal displays a series of lines of text, each starting with a line number followed by a status message. The messages are: "7 temperature is low", "37 humidity is high", "30 Warning:High Temperature", "73 humidity is high", "3 temperature is low", "55 humidity is normal", "24 temperature is normal", "34 humidity is normal", "17 temperature is normal", "45 humidity is normal", "7 temperature is low", "93 humidity is high", "29 Warning:High Temperature", "57 humidity is high", "9 temperature is low", "18 humidity is low", "27 Warning:High Temperature", "54 humidity is normal", "16 temperature is normal", "96 humidity is high", "3 temperature is low", and "30 humidity is high". At the bottom of the terminal, there is a green message that says "...Program finished with exit code 0" followed by "Press ENTER to exit console." in white text.

```
input
7 temperature is low
37 humidity is high
30 Warning:High Temperature
73 humidity is high
3 temperature is low
55 humidity is normal
24 temperature is normal
34 humidity is normal
17 temperature is normal
45 humidity is normal
7 temperature is low
93 humidity is high
29 Warning:High Temperature
57 humidity is high
9 temperature is low
18 humidity is low
27 Warning:High Temperature
54 humidity is normal
16 temperature is normal
96 humidity is high
3 temperature is low
30 humidity is high

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