

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(0,30)
```

```
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 ")
```

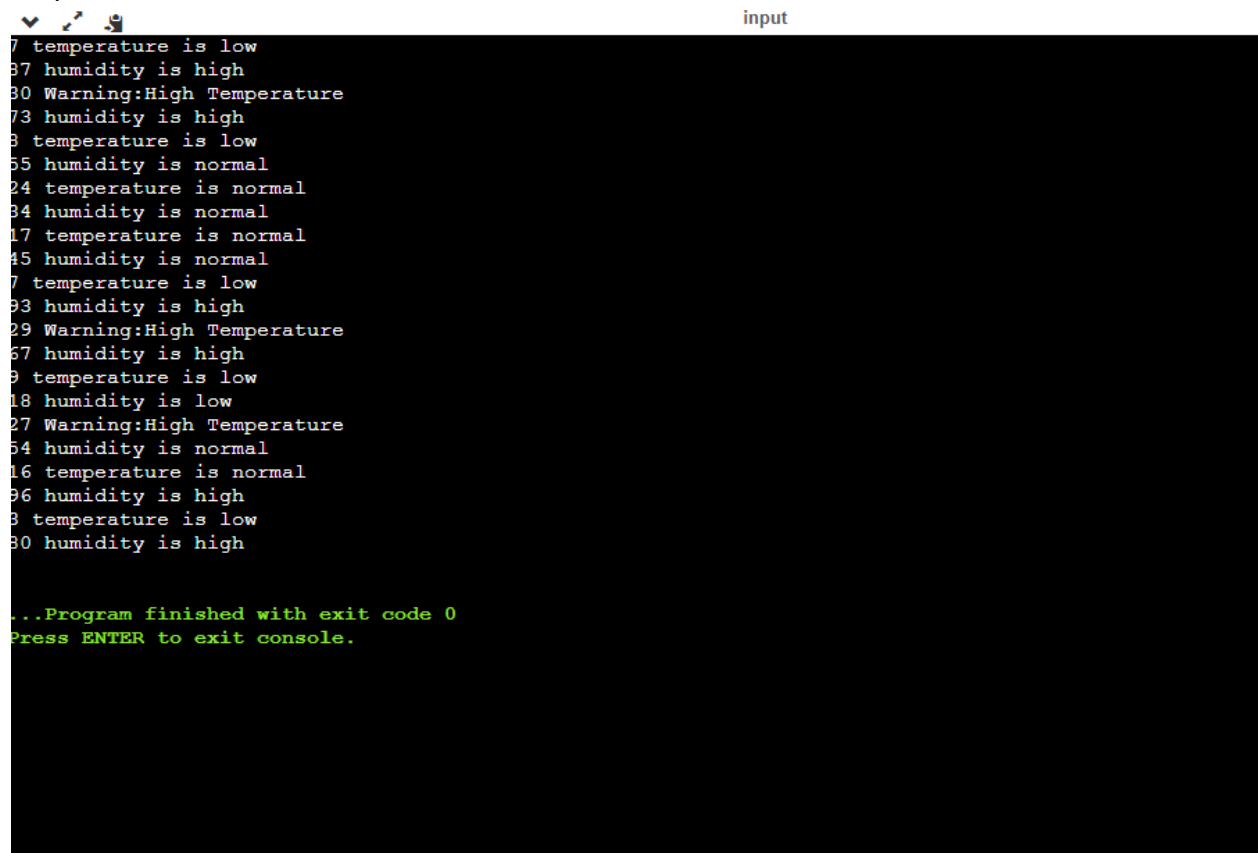
```
elif humidity<=60:

    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 text shows the output of a program, including status messages like 'temperature is low', 'humidity is high', and 'Warning:High Temperature'. At the bottom, it says '...Program finished with exit code 0' and 'Press ENTER to exit console.' The terminal window has a title bar at the top with the word 'input' and some icons on the left.

```
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
67 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.
```