



## Activity 14



Test your smart home system. Does it meet the basic requirements? If your system doesn't meet requirements, go back, and try to fix it. Then, write your results.

| Test                                                                                                                                                                                                                                                                                                                                                                        | Result                         |                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------|
| Does the program input a value from the built-in ambient light sensor?                                                                                                                                                                                                                                                                                                      | No<br><input type="checkbox"/> | Yes<br><input type="checkbox"/> |
| Does the program input a value from the built-in temperature sensor?                                                                                                                                                                                                                                                                                                        | No<br><input type="checkbox"/> | Yes<br><input type="checkbox"/> |
| Does the program output a light value on the LED grid?                                                                                                                                                                                                                                                                                                                      | No<br><input type="checkbox"/> | Yes<br><input type="checkbox"/> |
| Does the program output a temperature value on the LED grid?                                                                                                                                                                                                                                                                                                                | No<br><input type="checkbox"/> | Yes<br><input type="checkbox"/> |
| Does the program satisfy the following? <ul style="list-style-type: none"><li>◉ If the light value is <math>&lt; 200</math>, then<ul style="list-style-type: none"><li>◈ output "Dark" on the LED grid.</li></ul></li><li>◉ If the temperature value is <math>&gt; 25</math>, then<ul style="list-style-type: none"><li>◈ output "Hot" on the LED grid.</li></ul></li></ul> | No<br><input type="checkbox"/> | Yes<br><input type="checkbox"/> |

Did you answer No to any questions? If so, can you change your program to improve your test score?

Explain any changes that you made to your program.

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