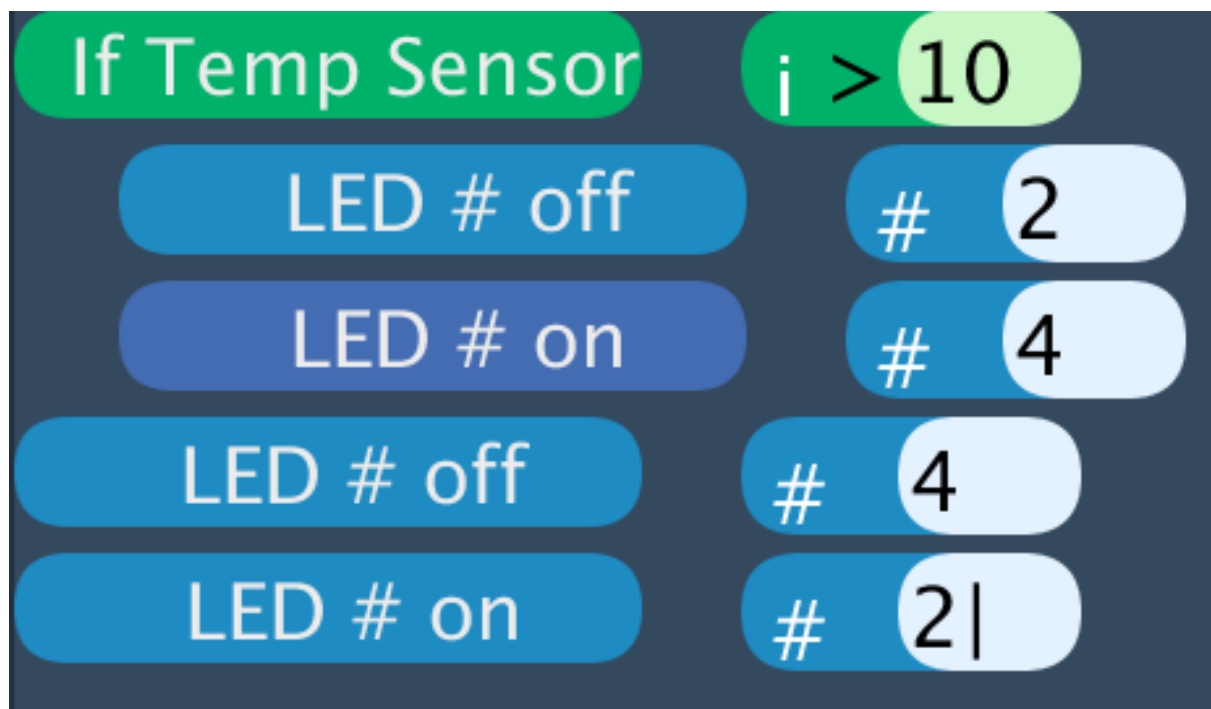# Exercise 4: Hot or Cold

Exercise:

In this exercise, you must make a program that uses the temperature sensors on the Engduino to detect whether its 'Hot or Cold'. You can light up one LED to indicate that it's cold and a different one to indicate that it's warm.

In this exercise, you will need to use the temperature sensors to detect a change in temperature. If the temperature exceeds the threshold value LED 4 (Hot) switches on else LED 2 switches on to indicate that it is cold.

The sketch above checks if the temperature goes above 10˚C, if so LED 4 switches on and LED 2 is switched off. You may want to change the temperature value depending on what the temperature in your room is. Furthermore, you are also able to see the change in temperature if you place your finger over the temperature sensor. Moreover you may also want to try and recreate a similar program using the light sensor to check the light intensity in the room.