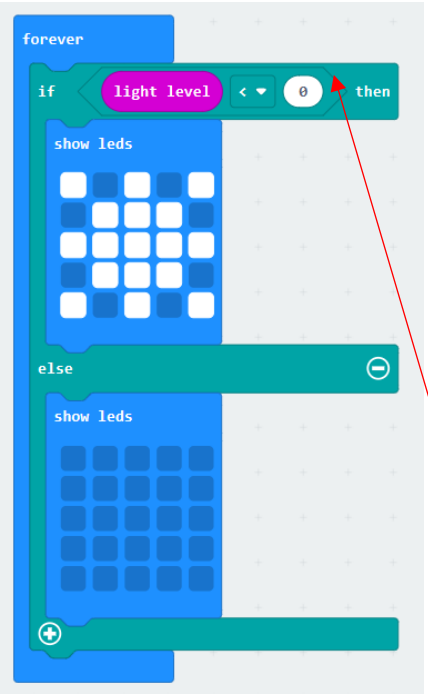
Name: _____ **Date:** _____

BEWARE! During the whole process of the exercises you need to keep the frontal side of the micro:bit (with the LEDs) facing the roof.

Unit A



Copy the program you see in the picture. Pass your hand over the LEDs. Do they switch off? Can you explain why?

Trying to find the value the LEDs switch off, as accurate as we can, when we pass our hand over the screen, do the following:

Change the indication, trying to rise the value by 50, to locate the group of 50 you are in.

In this group of 50, change the values by 10. After you locate the group of 10 you are in, change the values by 1.

Note the value you found. _____

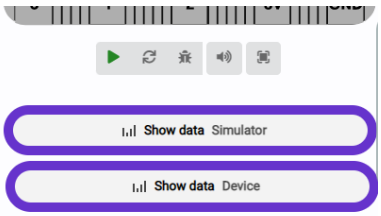
The value of each group is the same or different? How can you explain that?

Unit B

In order not to blindly search for the value, there is a way to see what the micro:bit measures. Copy the following program and see if you can detect the value you found before. How close did you get?



Don't forget to click on the Show data Device to see the measurements.

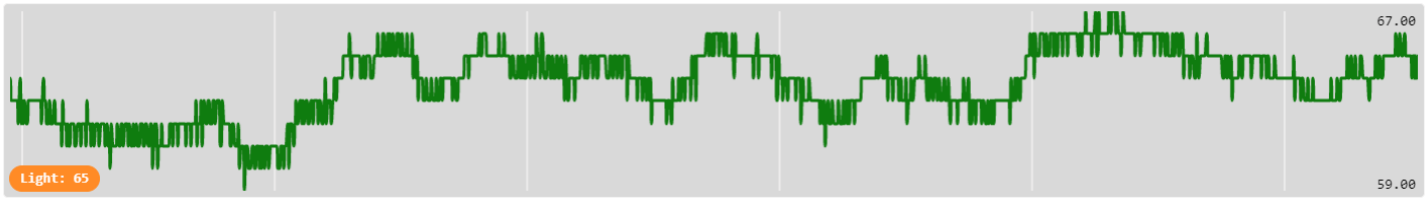


BEWARE! The device is very sensitive to the data it receives and transmits. In the first picture that follows you see the picture you get if you don't keep your hand stable, or when you try to find the proper angle the light of the lamp falls on the board.

Notice that on the right, above and below, you see the maximum and the minimum value respectively that you have measured. At the bottom left, you see the last value.



In the second picture you see what you get when you keep your hand steady. As you can see, on the top and bottom right the value range (the difference between the maximum and the minimum value) is reduced.



Try to achieve the shortest difference possible, keeping your hand as steady as you can!