

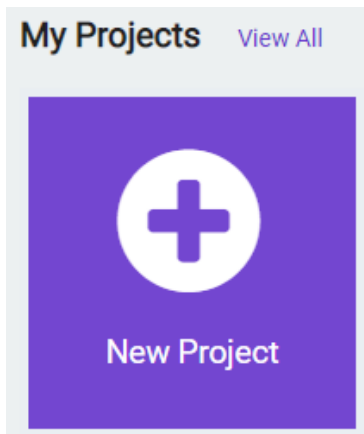
MICROBIT PROGRAMMING (BLOCK-BASED)

(Time required 15-minutes session)

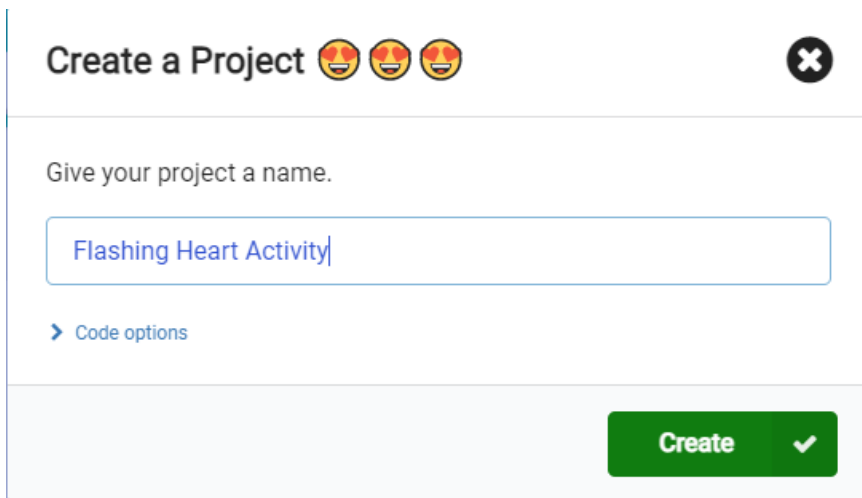
"Flashing Heart" program: simple animation on the LED array that repeats forever.

Building the "Flashing Heard"

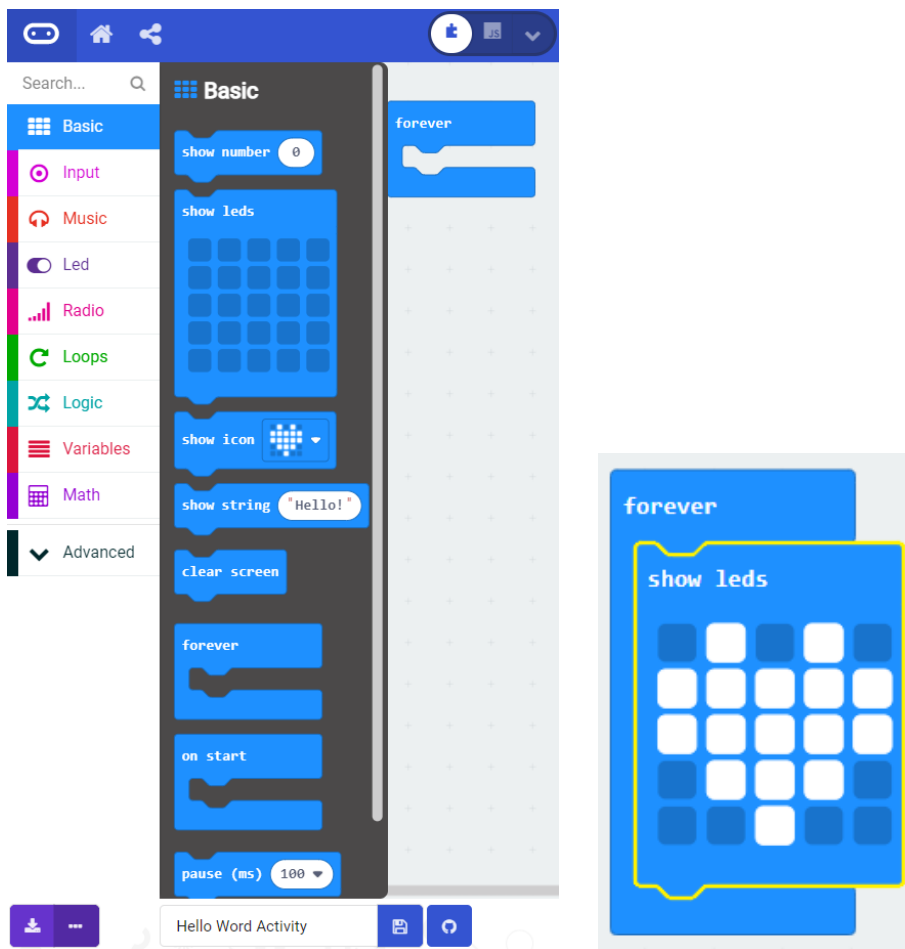
Step 1: Go to <https://makecode.microbit.org/#> and create a New Project



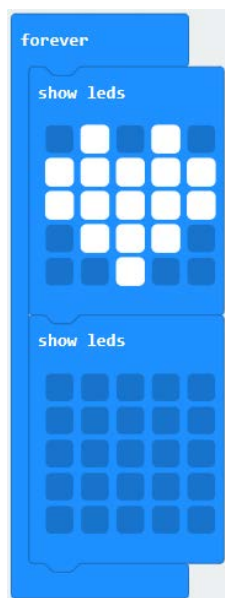
Step 2: Click on New Project and give it a project name – **Flashing Heart Activity** and click Create



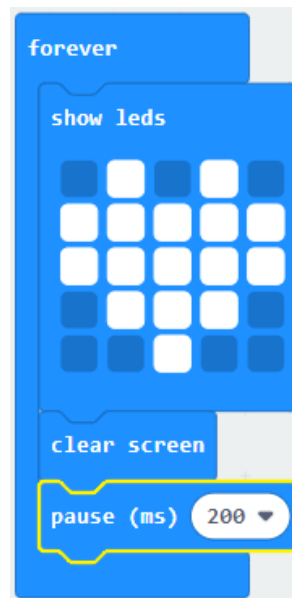
Step 4: click on the **Basic** category. Click and drag the **show leds** block over and place it inside of your forever block. Draw a heart in the block.



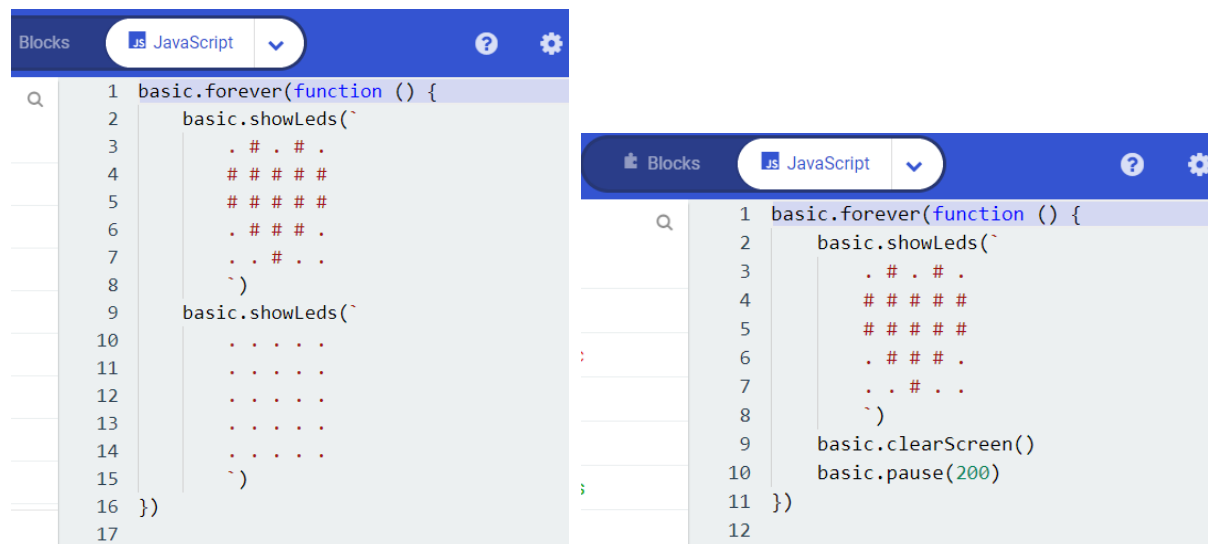
Step 5: Place another **show leds** block. You can leave it blank. By leaving the show leds blank we turn off all leds. An alternative solution is to place the **clear screen** block and place the **pause (ms) 200** block.



OR



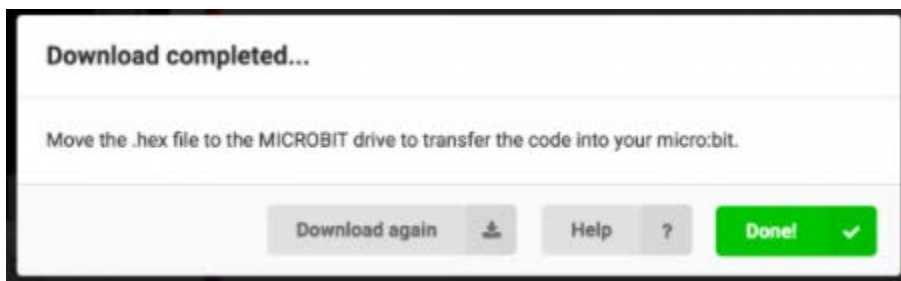
Step 6: Click on the JavaScript slider to convert the block-based program to text-based program



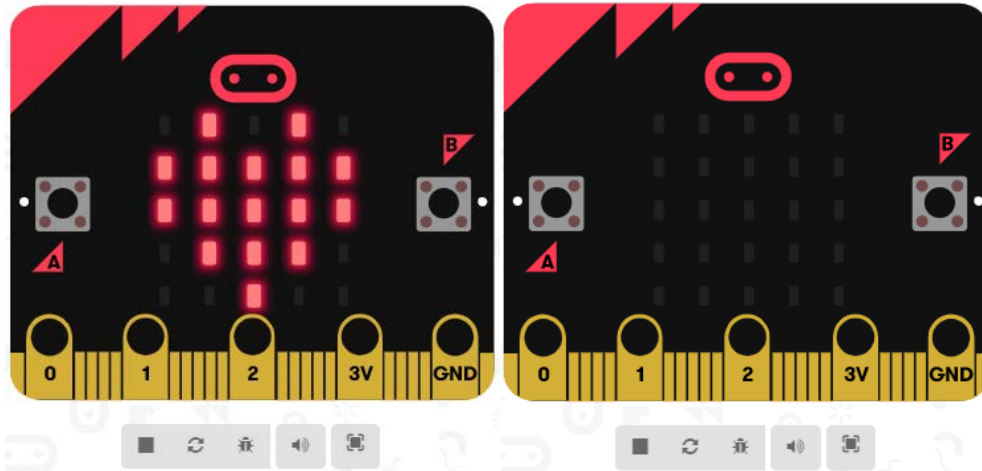
Step 7: Click the download button in the lower lefthand corner of the code window. It will download most probably in the Downloads folder



Step 8: Simply click and drag your program file from its download location to your micro:bit drive, which shows up as an external device.



Step 9: Your micro:bit will flash for a few seconds, and then your program will start automatically.



Step 10: If you want to modify the flashing heart program go ahead, when finish, show it to everyone.

Congratulations! You have successfully completed this activity.

Reference: Micro:bit Projects

<https://makecode.microbit.org/projects/flashing-heart>