



Emotion Badge

Micro:bit

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GOAL

In this workshop you will use the **BBC micro:bit** to create a badge to show how you feel



What will you learn

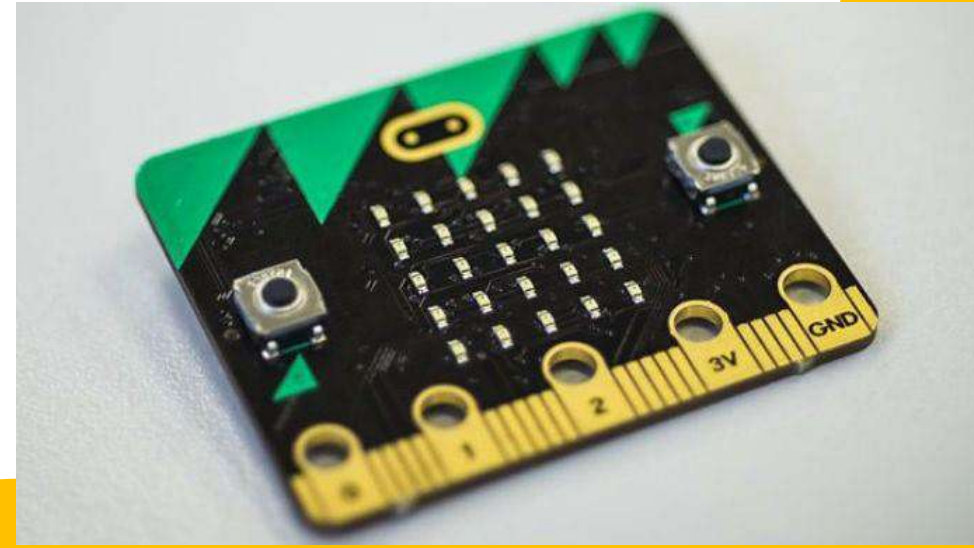
Using the micro:bit

Programming buttons

Using the MakeCode interface

What will you need

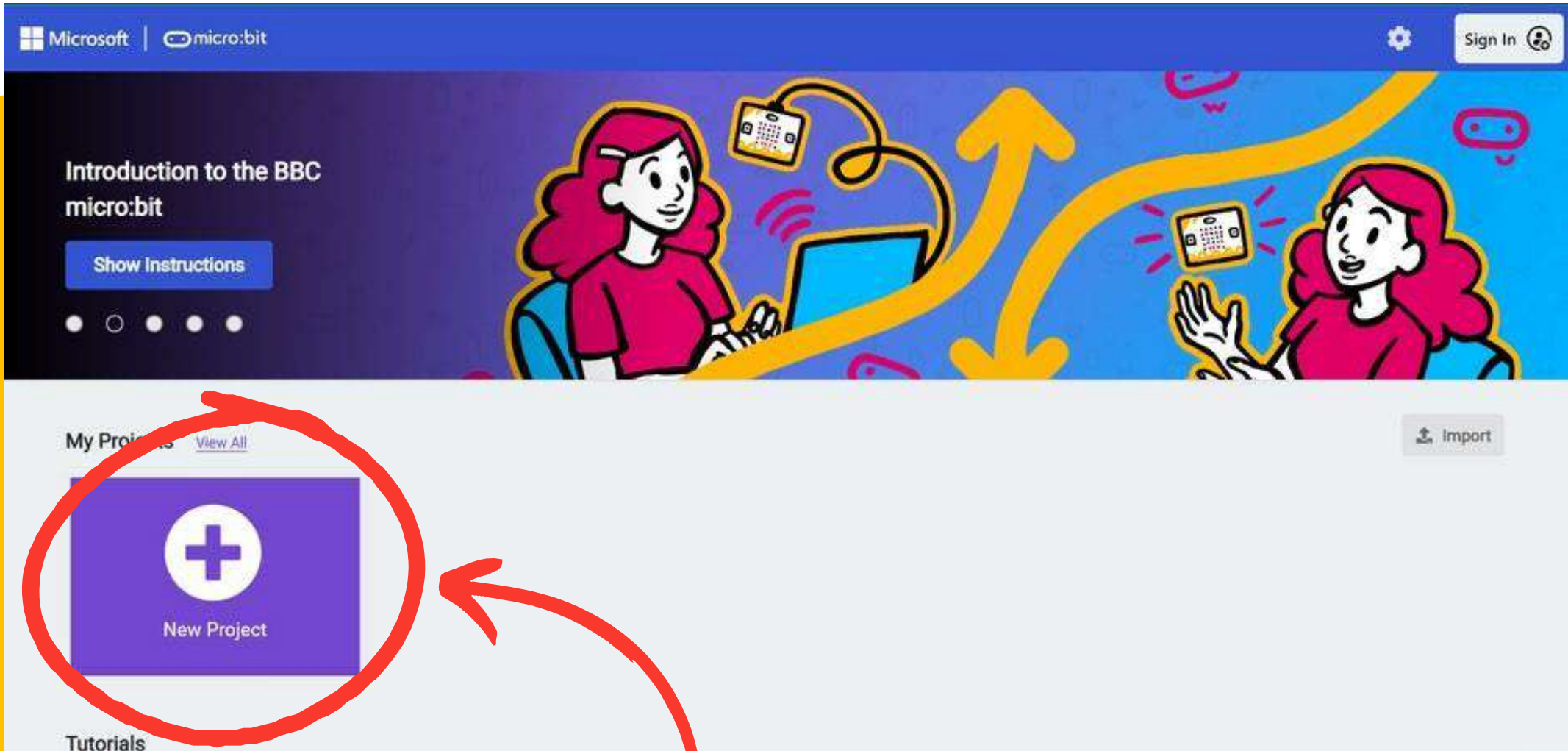
- A computer
- Access to the internet
- BBC micro:bit
- USB to micro-USB cable



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Time to go on your
browser and visit
makecode.microbit.org

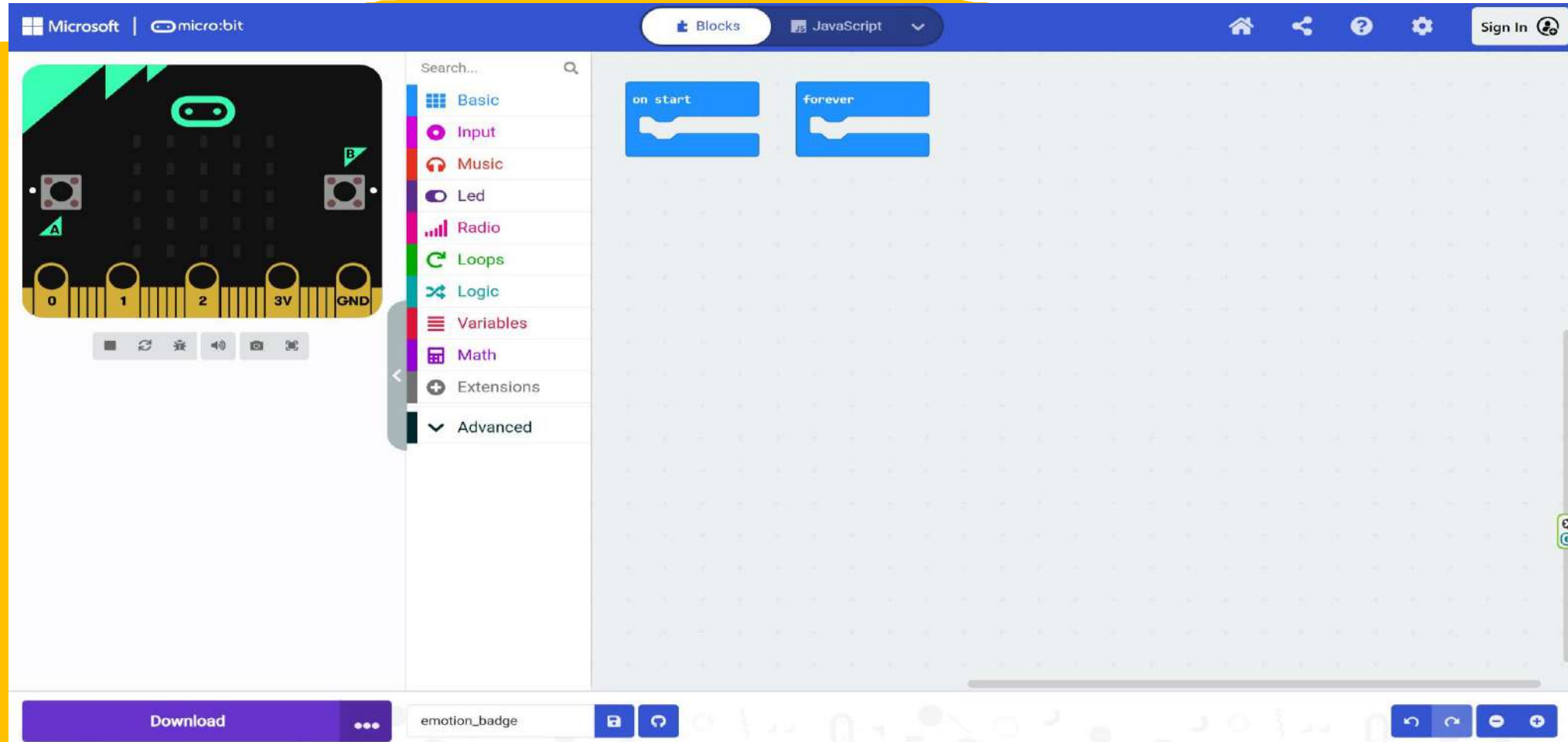
Step 1: Press on the + icon to create a new project



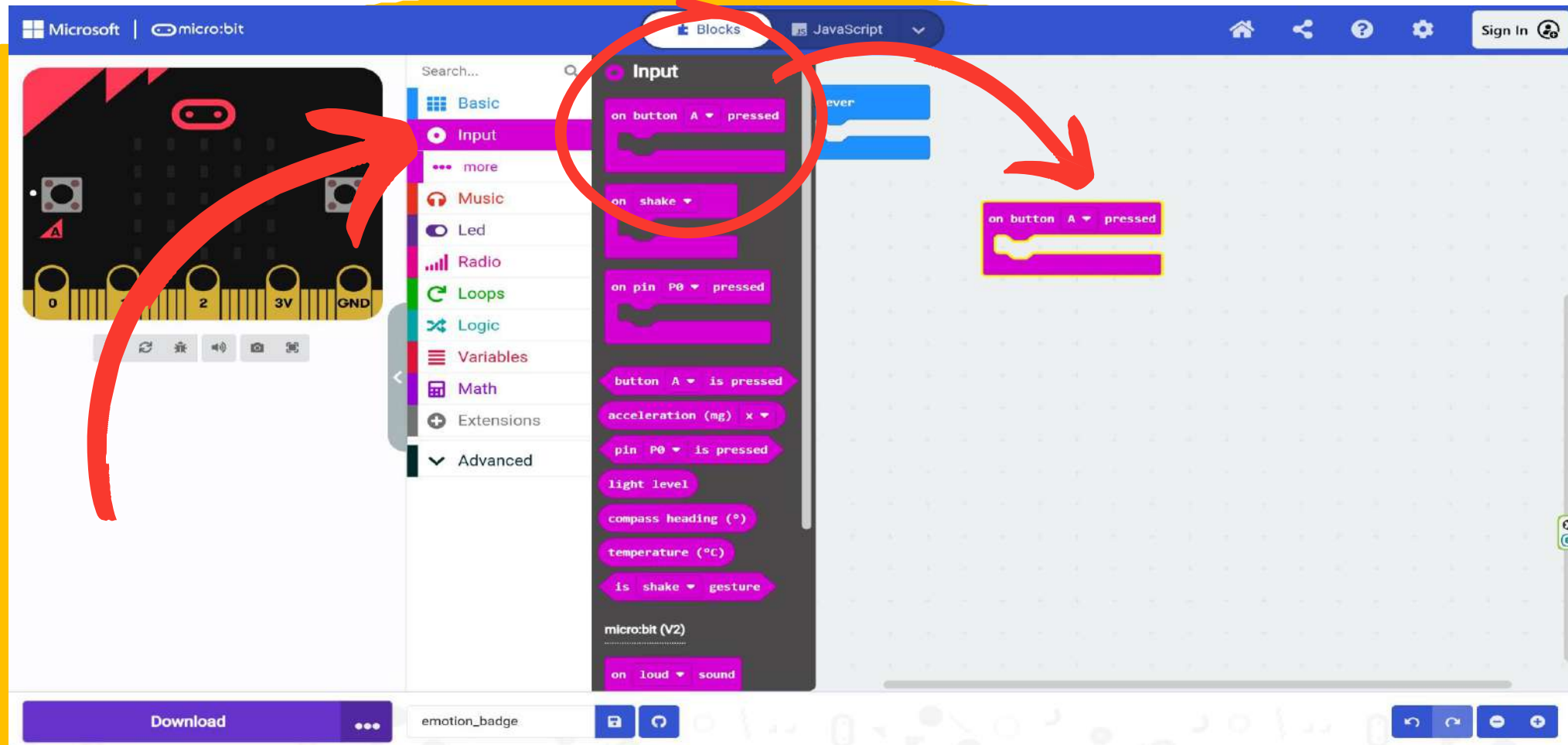
Step 2. Name the project **emotion_badge** and press **create**

The screenshot shows the Microsoft MakeCode website interface. At the top, there is a navigation bar with the Microsoft logo and 'micro:bit'. Below this is a banner for 'Introduction to the BBC micro:bit' with a 'Show Instructions' button. The main content area is titled 'My Projects' and features a 'New Project' button with a plus sign. A modal dialog box titled 'Create a Project' is open in the center, prompting the user to 'Give your project a name.' The text 'emotion_badge' is entered in the input field. Below the input field is a 'Code options' link and a green 'Create' button with a checkmark. A large red arrow points from the right side of the screen towards the 'Create' button. The background shows a grid of project thumbnails, including 'rock-paper-scis', 'emotion badge', and 'Sens'. At the bottom, there is a 'Tutorials' section with icons for 'Flashing Heart', 'Name Tag', 'Smiley Buttons', 'Dice', 'Love Meter', and 'Micro Chat'.

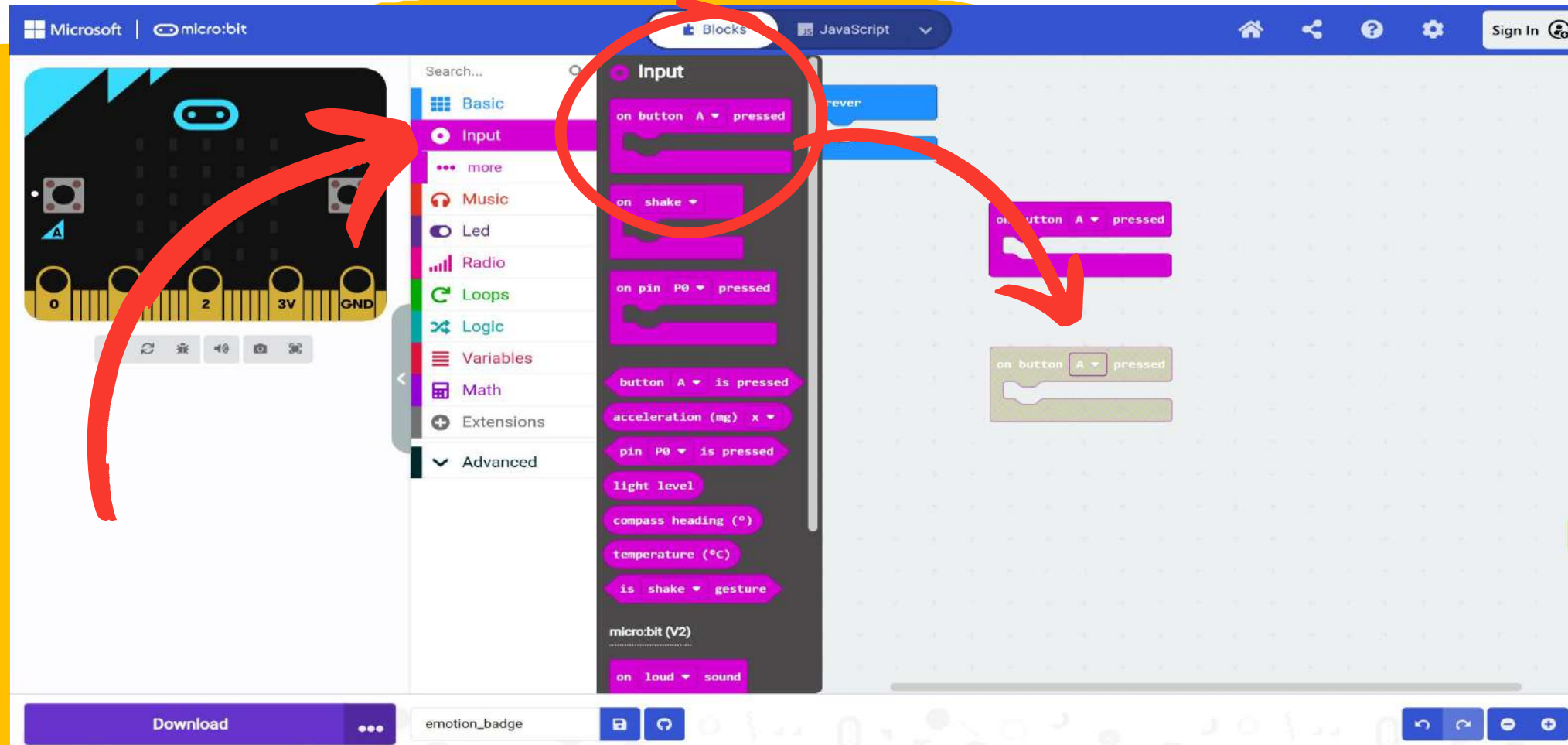
You will see the main programming interface



Step 3. Under the **Input** category find the **on button A pressed** and pull it in the program

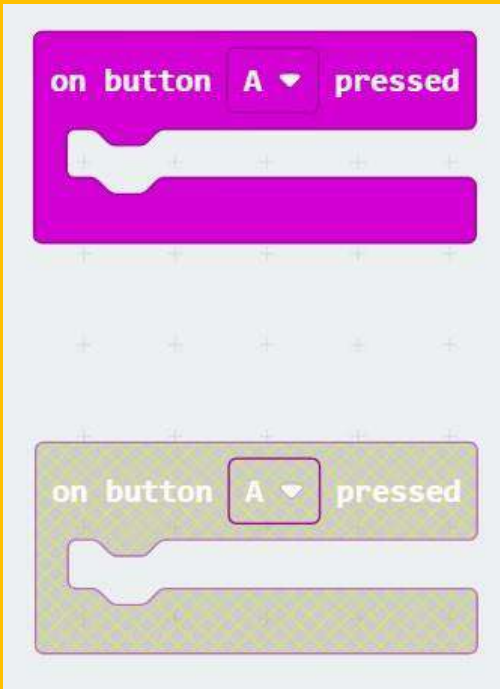


Step 4. Under the **Input** category find the **on button A pressed** and pull it in the program for a second time



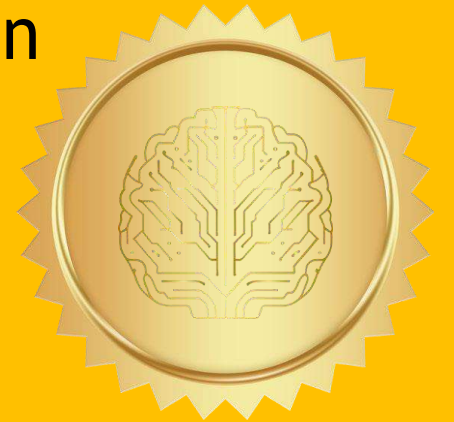
Knowledge time

Conflicting blocks

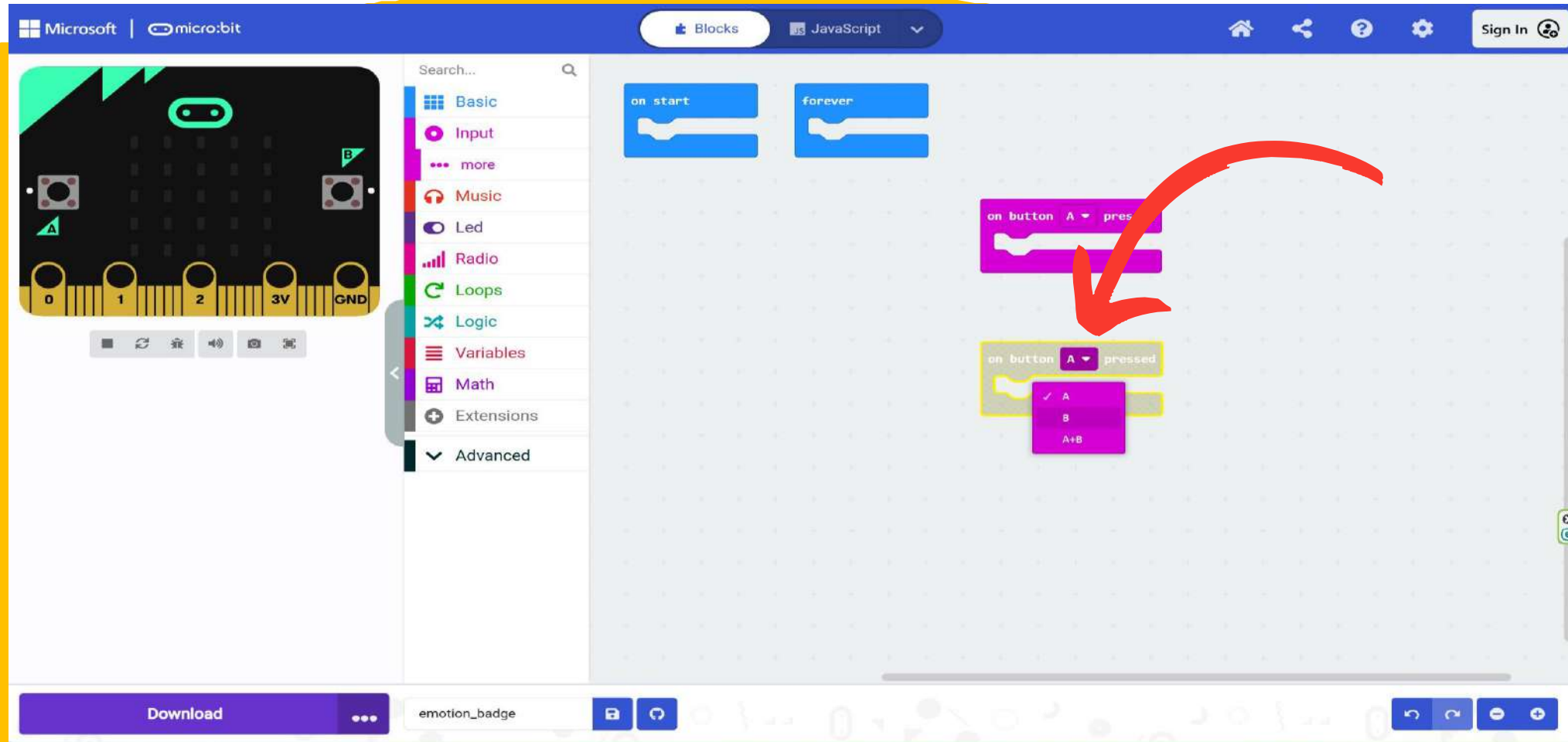


When two blocks are conflicting then one of them is grayed out!

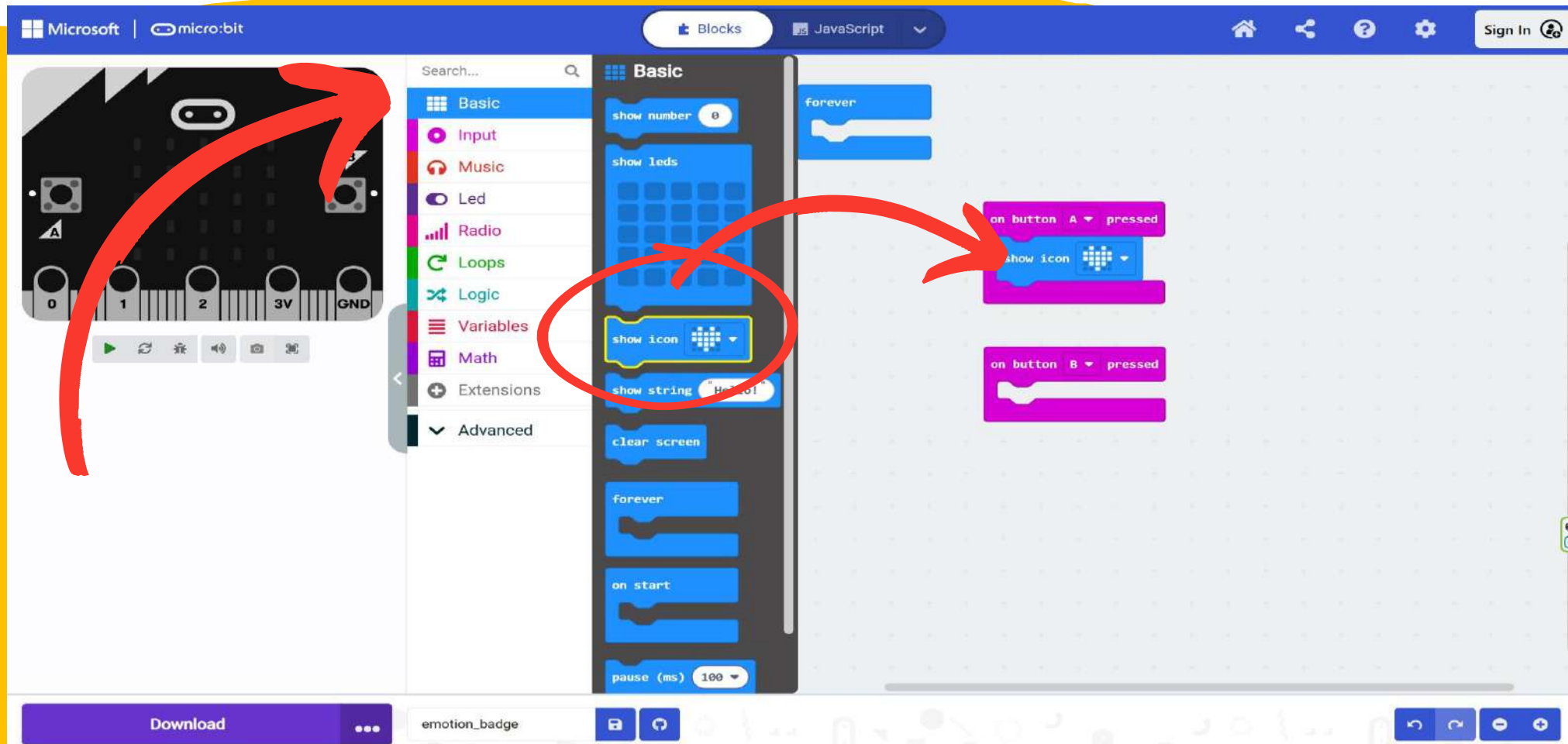
In this example there are two on button pressed block for button A



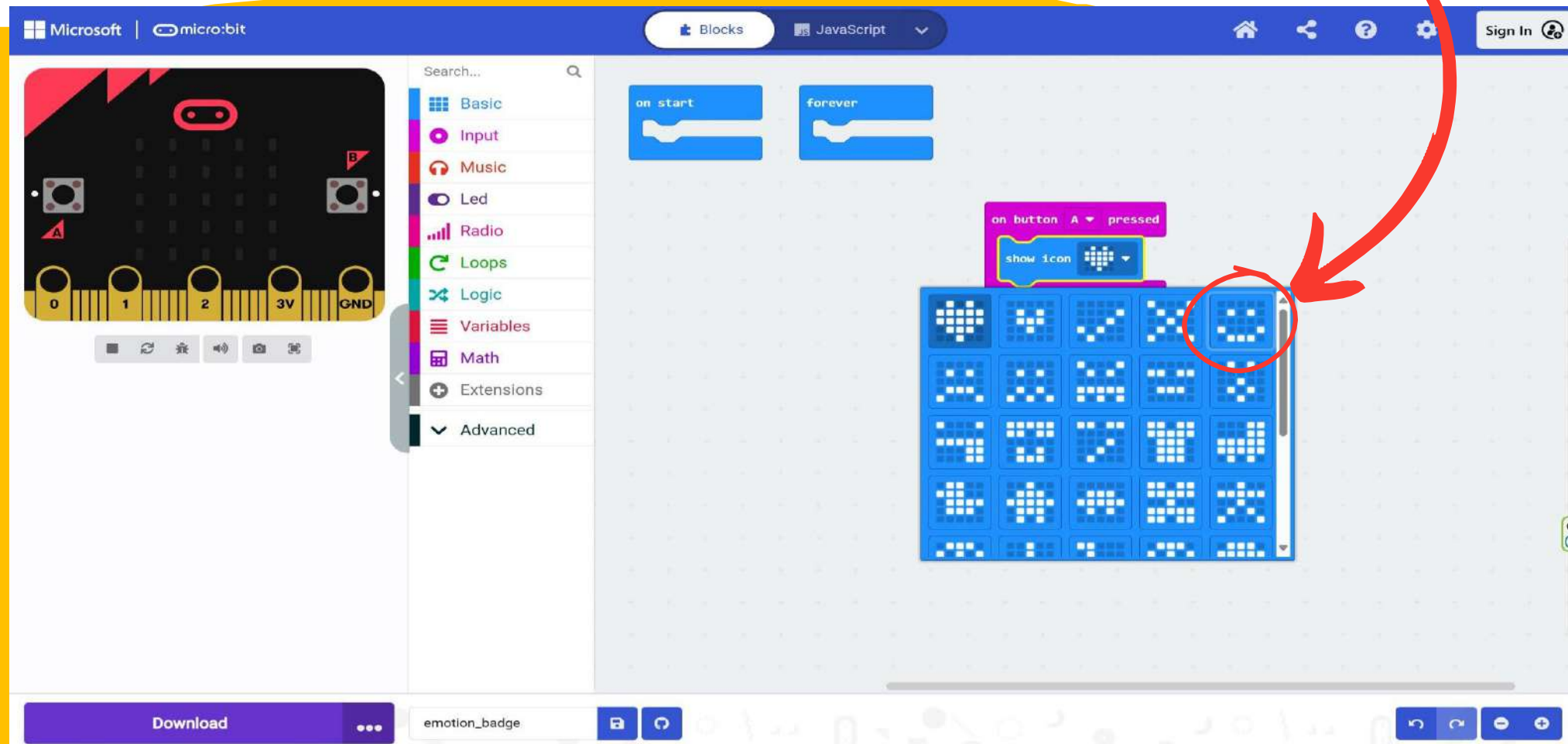
Step 5. Click on the letter A and change it to B to enable on button B pressed



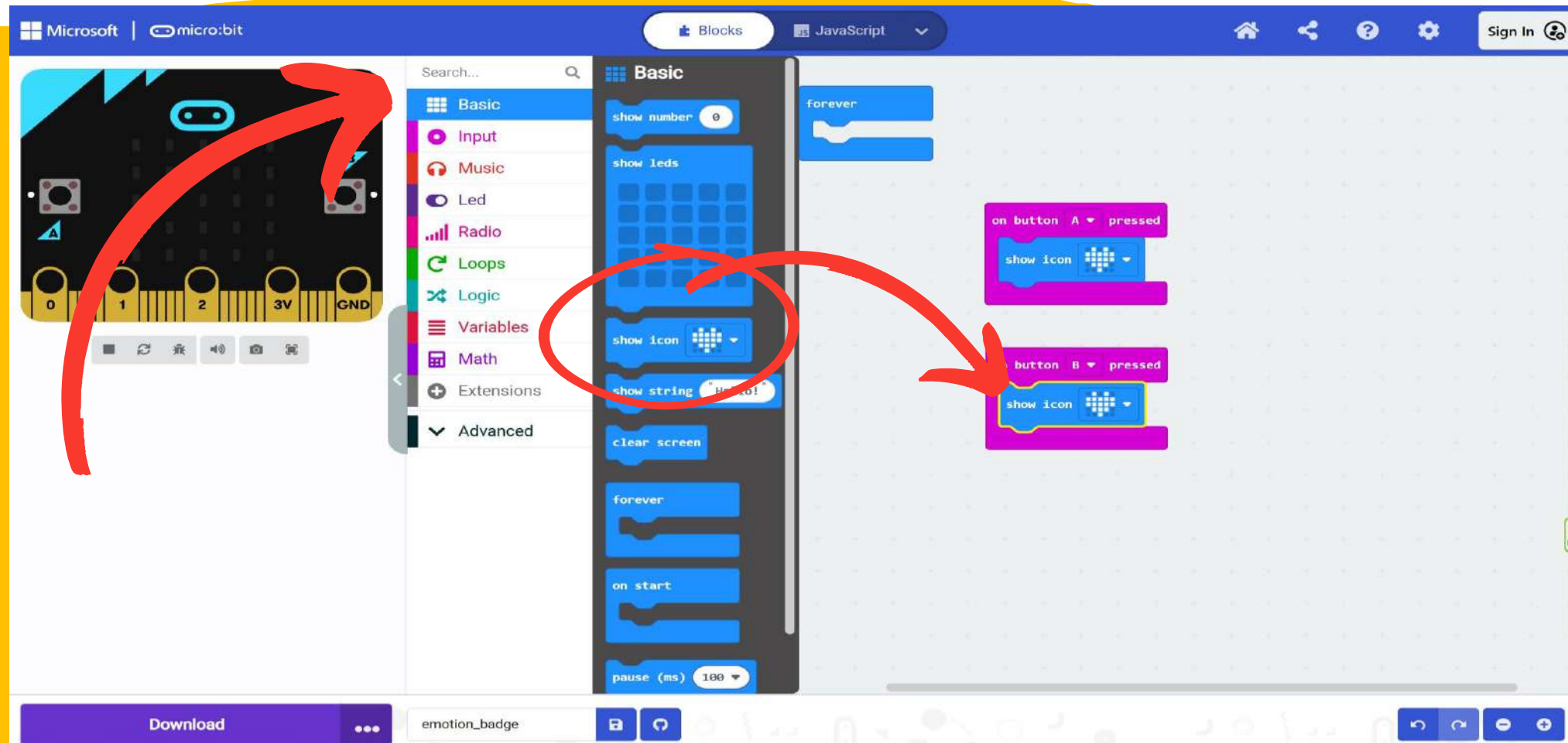
Step 6. Under the **Basic** category find the **show icon** and pull it in the on button A pressed block



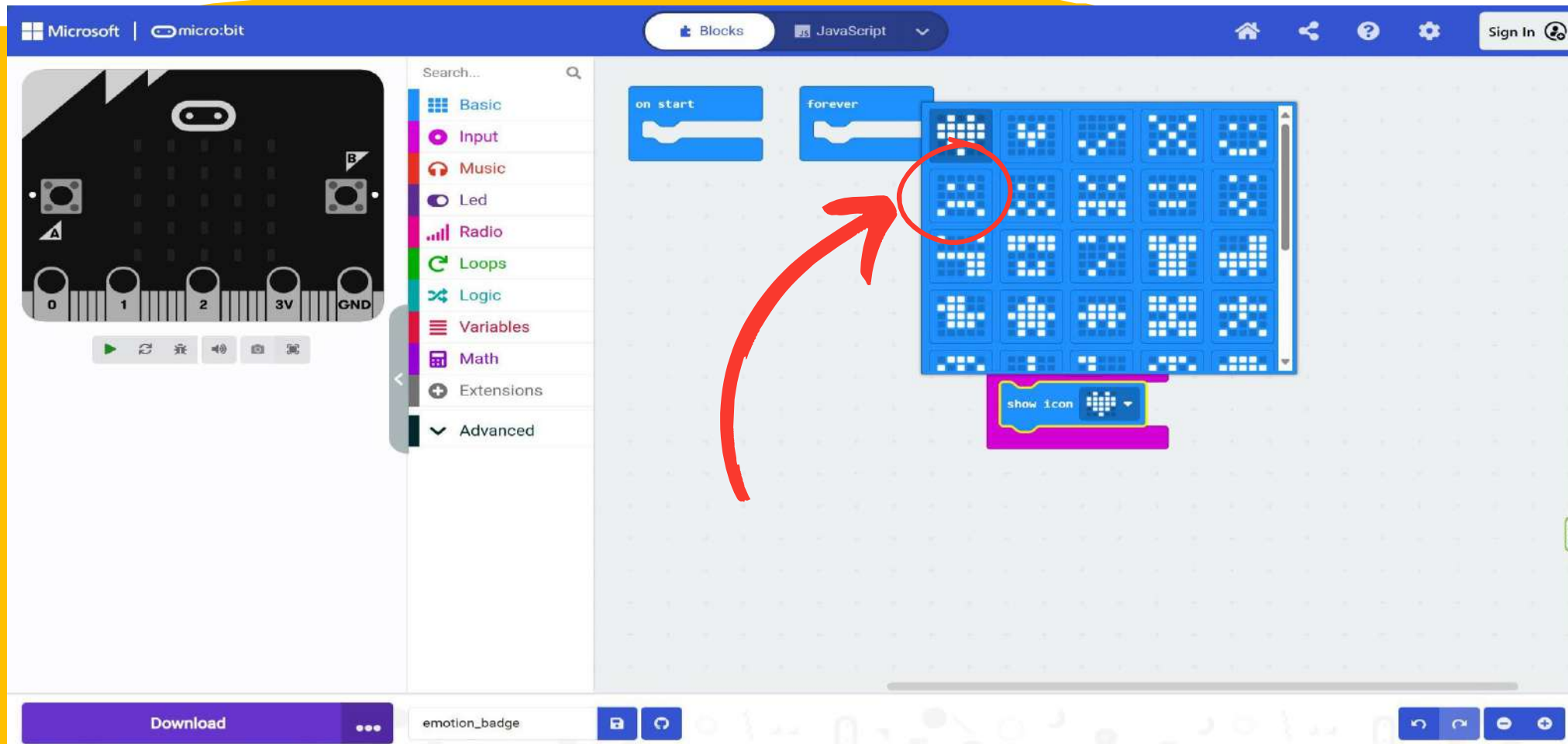
Step 7. Change the **show icon** from a heart to a **smiley face**



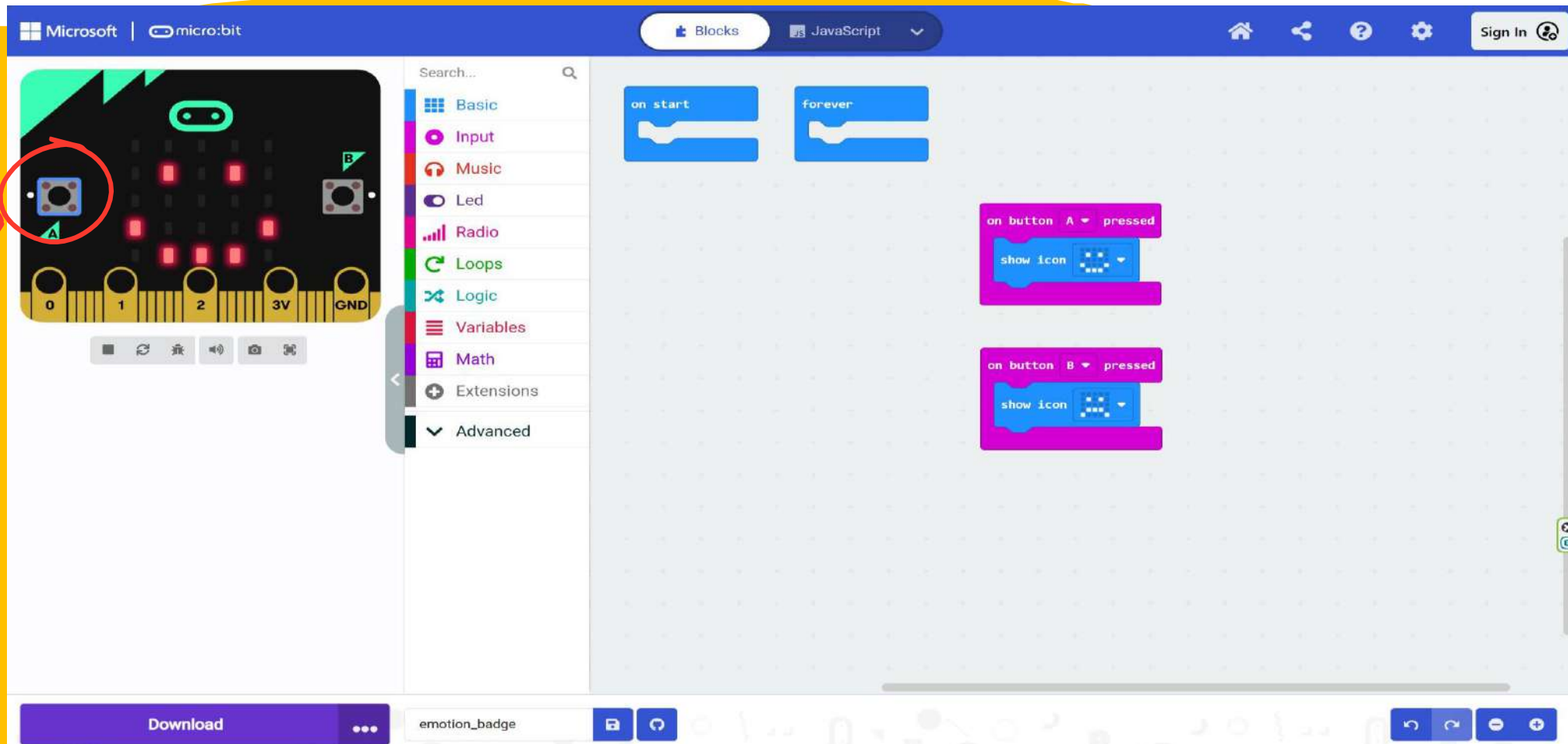
Step 8. Under the **Basic** category find the **show icon** and pull it in the on button B pressed block



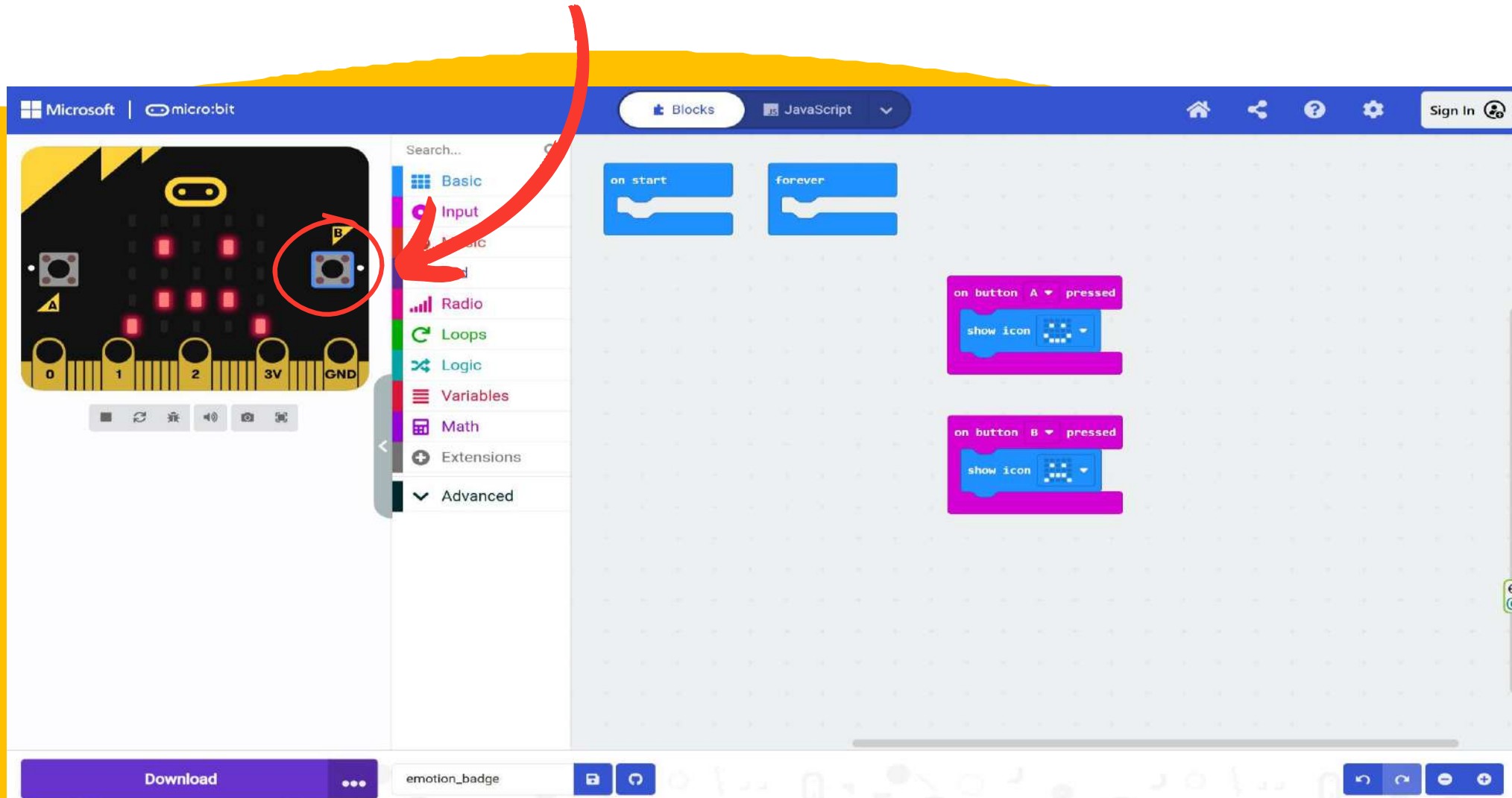
Step 9. Change the **show icon** from a heart to a **sad face**



Step 10. Click on button A in the simulator to see the **smiley** face

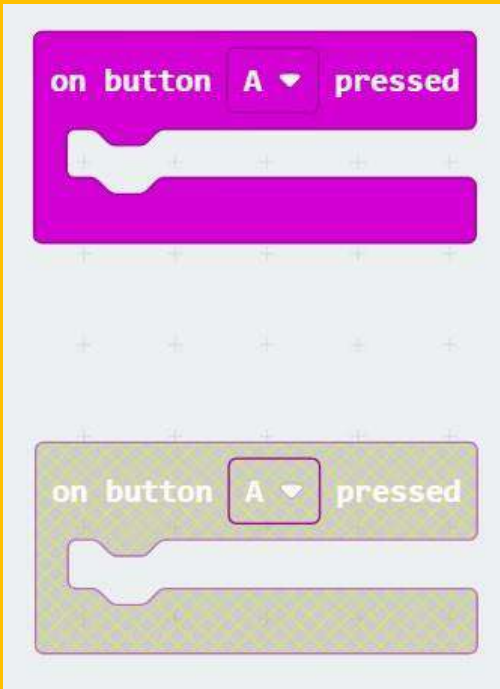


Step 10. Click on button B in the simulator to see the **sad** face

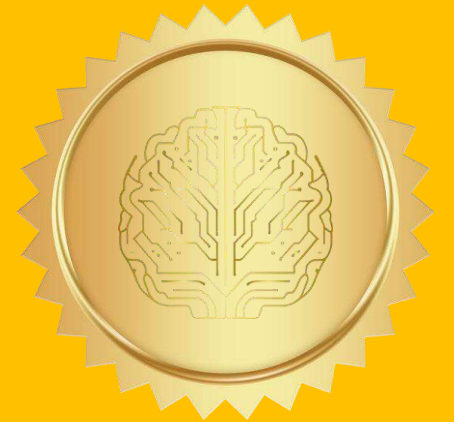


Knowledge time

Changing button code



Try to change the code in the on button pressed blocks and experiment with the results.



Thank you



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