

# Project 116



## Coding School



Let's display different light patterns and words using each of the inputs in the micro bit circuit

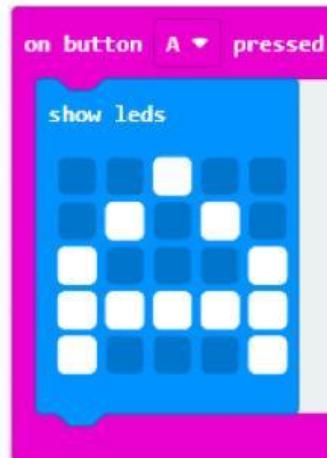
- ❖ There are several ways to provide input to the microbit circuit. Among them
  - ✓ The A button
  - ✓ The B button
  - ✓ A + B button
  - ✓ Forward tilting of the circuit
  - ✓ Backward tilting of the circuit
  - ✓ Tilt the circuit to the left
  - ✓ Tilting the circuit to the right

A few Let's create patterns and words using the inputs given above.

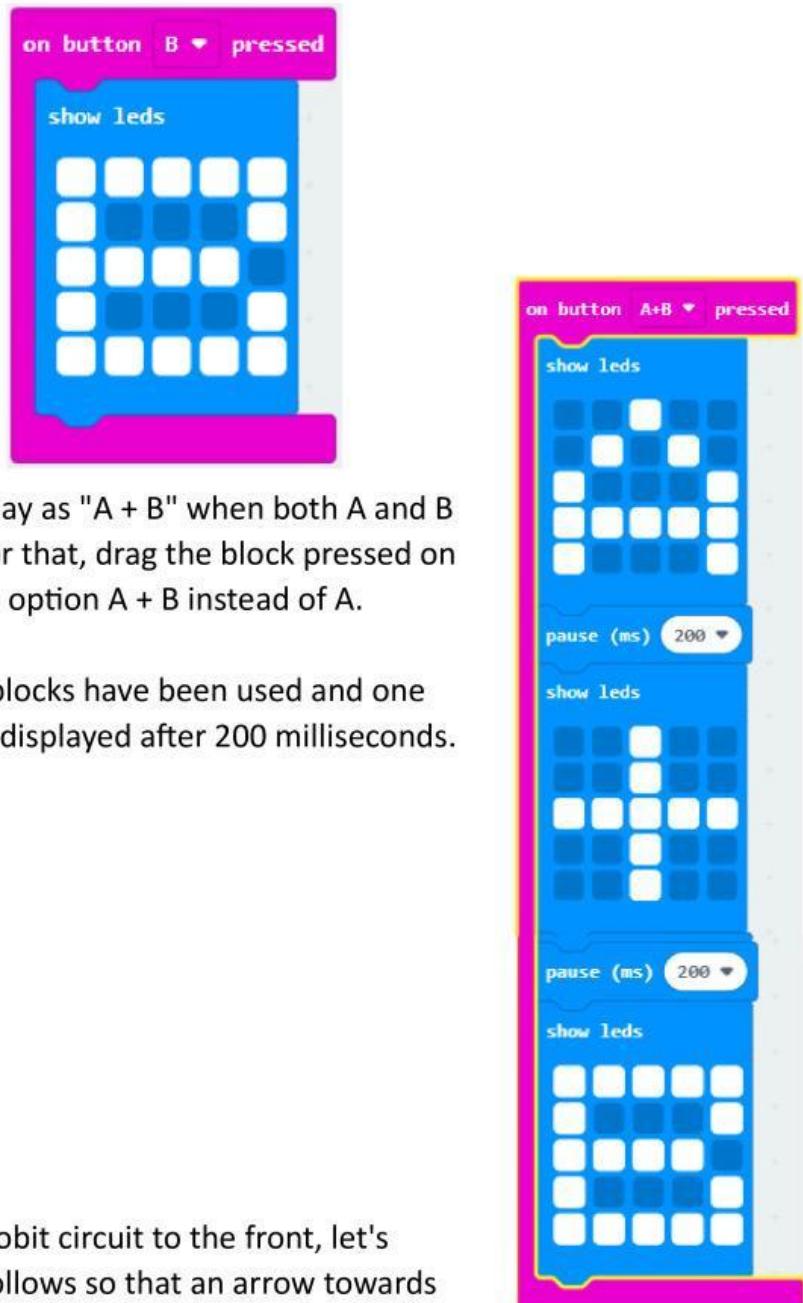
- ❖ First at the beginning "Hello! Set the blocks as follows to display the string Welcome to micro:bit.



- ❖ Set the blocks as follows so that the letter "A" is displayed when the A button is pressed. For this, go to the input tab and drag the on button A pressed block. After that, prepare as follows. By clicking on each led in the show led block, you can select the led that should be on. Arrange the led in the form of letter A.



- ❖ To create the letter "B" to be displayed when the B button is pressed, drag the on button A pressed block through the input tab and select B instead of A from the dropdown. Then code as below.



Code as follows to display as "A + B" when both A and B buttons are pressed. For that, drag the block pressed on button A and select the option A + B instead of A.

Here, three show leds blocks have been used and one block is designed to be displayed after 200 milliseconds.

- ❖ When sticking the microbit circuit to the front, let's arrange the blocks as follows so that an arrow towards north is displayed. For that, drag the on shake block in the input tab. Select the logo down option from the dropdown.



Then drag the show arrow block into that block through the basic tab.  
Select its side as north.



- ❖ Let's design as below to display an arrow towards south when tilting the Microbit circuit backwards. For that, let's use on shake and show arrow blocks as above.



- ❖ Let's design as below to display an arrow towards west when the microbit circuit is tilted to the left. For that, let's use on shake and show arrow blocks as above.



- ❖ When the microbit circuit is tilted to the right, let's design it as follows to display an arrow towards east. For that, let's use on shake and show arrow blocks as above.

