

Circuit 5 remix -- buttons

Part 1 - 10XP

Get the basic circuit 5 working.

Part 2 - 10XP

Add another LED.

Both LEDs should blink (100ms on, 100ms off) only when both buttons are pressed. else no LEDs will blink

Part 3 - 15XP

Implement the following logic.

if both buttons are pressed both LEDs should blink (100ms on, 100ms off)

if button 1 is pressed LED 1 should light (steady without blinking)

if button 2 is pressed LED 2 should light

if no buttons are pressed, no LEDs should be on.

Part 4 - 5XP

In addition to part 3, I want the following printed to the serial line at the correct time:

Both buttons pressed

Button 1 pressed

Button 2 pressed

DEMO

Part 5 - 15XP

Write 2 functions:

blink - blinks both LEDs on for 100ms and off for 100ms.

alternate - blinks 1 led on for 100ms, then turns that one off and lights the other for 100ms.

When one button is pressed blink is executed. When the other button is pressed alternate is executed.

OR Part 5 Hacker- 35XP

add one more LED

when one button is pressed the three LEDs blink on and off together

when the other button is pressed they blink in turn (a chaser effect)

when both are pressed - some other pattern - your choice. (this should be another function)