

Partner Task - Potentiometers

Partners: _____

Part 1.

Implement Circuit 2 from the workbook and demo.

DEMO PART 1 10XP

Part 2.

1. This circuit introduced the concept of variable. Just to make sure you understand this concept, I would like you to change the name of the variable `sensorValue` to `valOrDelSensor`. Check that your code is still working properly before moving on.
2. Right now the slowest the circuit will blink is 1 second on and 1 second off. I would like you to change that so the slowest blink rate is 2 seconds on and 2 off. (multiplication might be useful here).
3. Finally, change the hardware so that the potentiometer is connected to pin 1 and the LED is connected to pin 10. Adjust the software accordingly.

DEMO PART 2 15XP

Part 3

Last time you designed a circuit that alternated between two leds. (one or the other of the LEDs was always on). I would like you to add a potentiometer to that code to change the speed at which they alternate.

DEMO PART 3 25XP