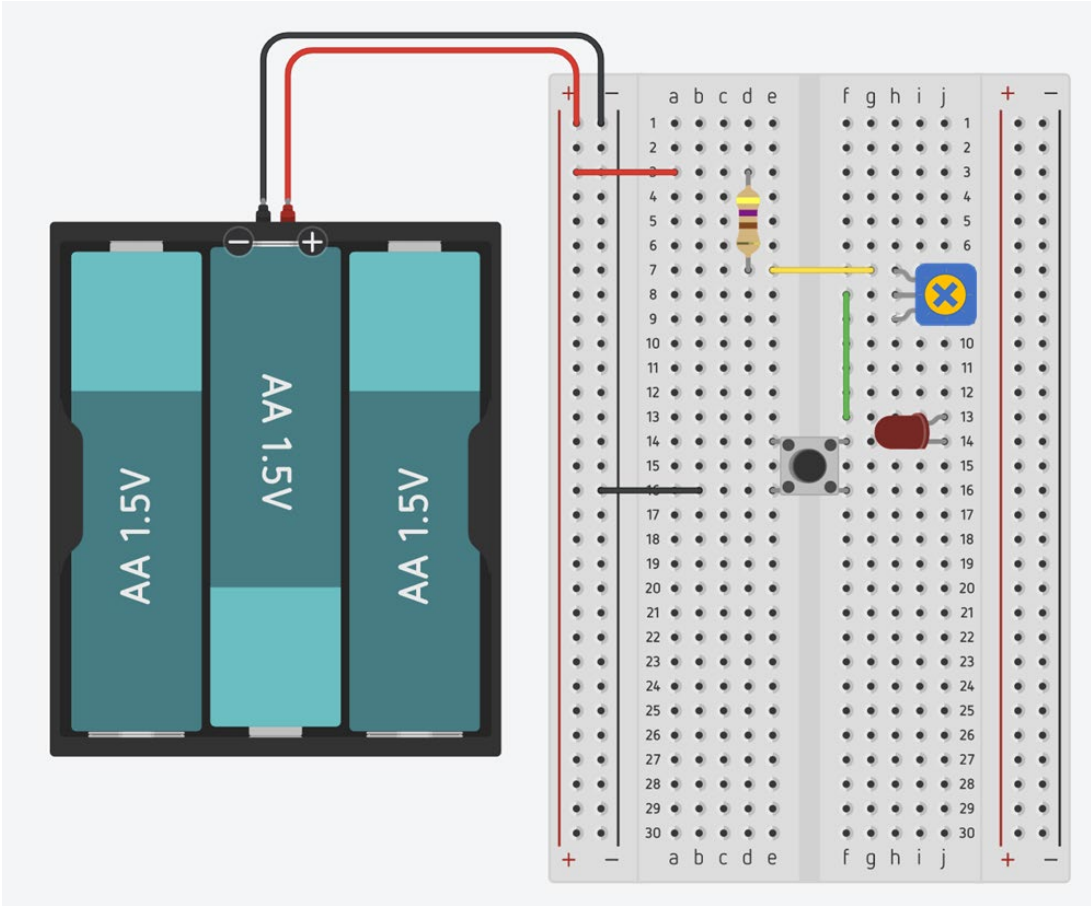
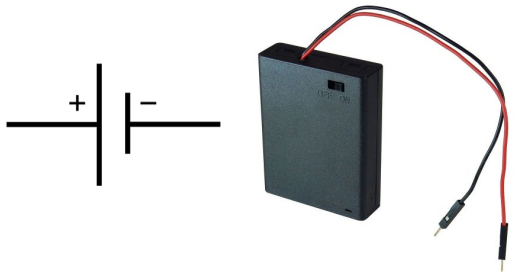
Button Switch & POT Circuit



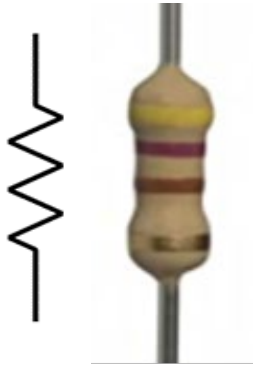
We will be building the Button Switch Circuit. Here are the components you will need.

4.5V BATTERY PACK

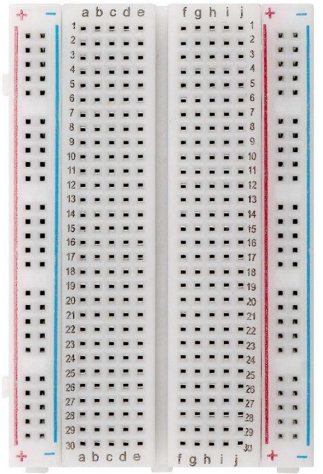


Potentiometer

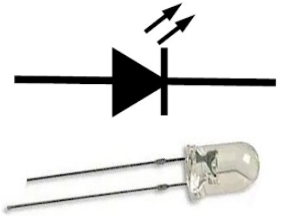
470Ω RESISTOR



BREADBOARD



LED (Light Emitting Diode)



WIRES

Pushbutton

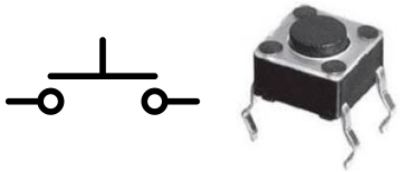


Figure A: Circuit Diagram or Schematic

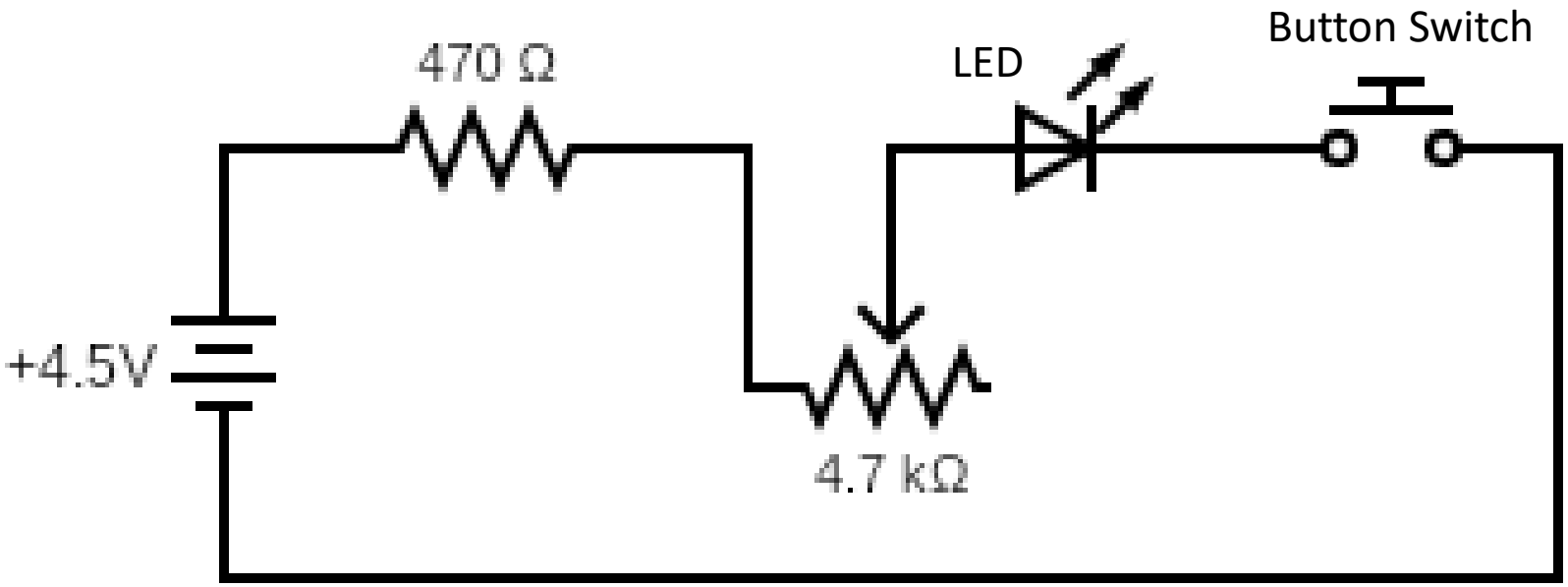
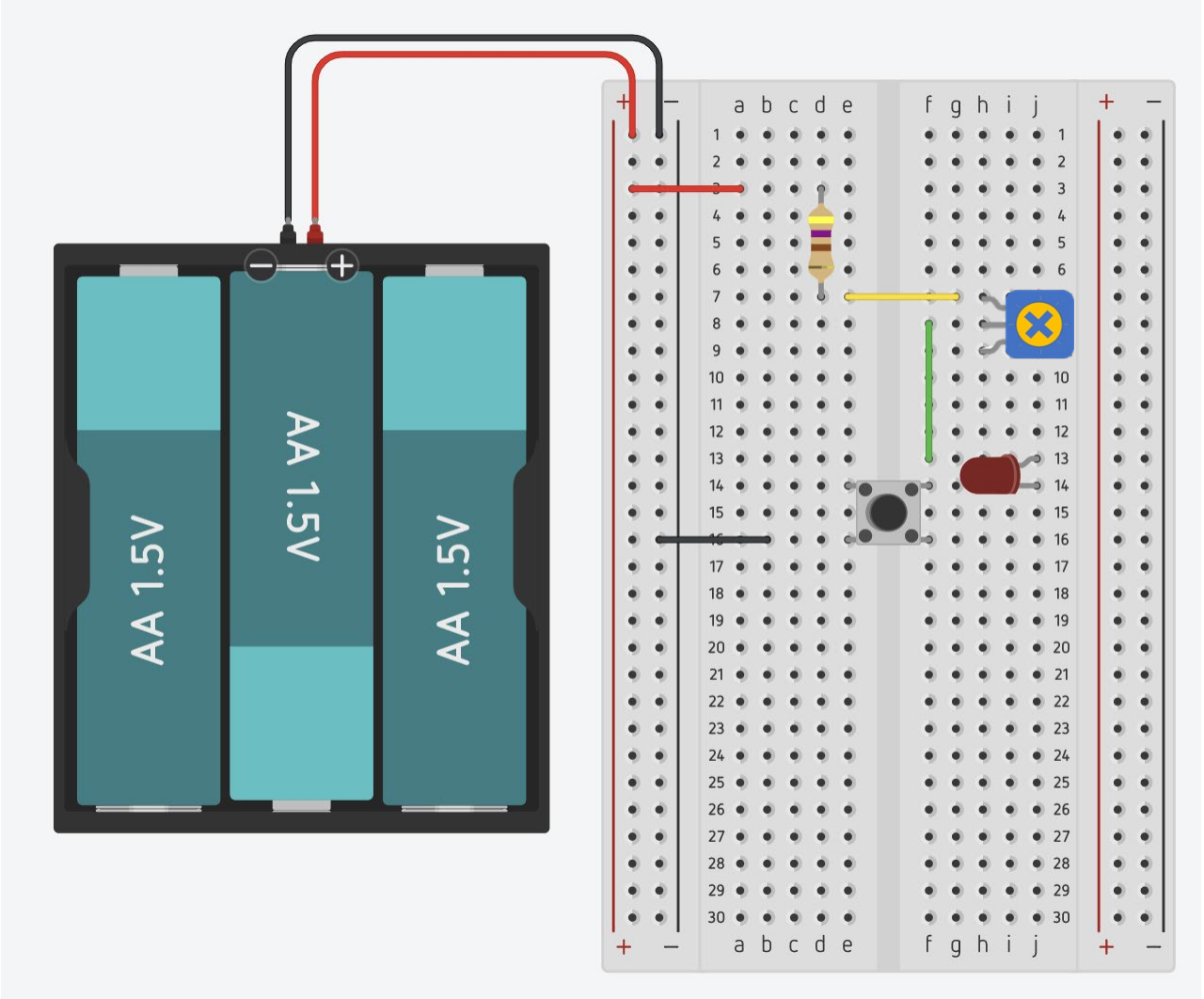
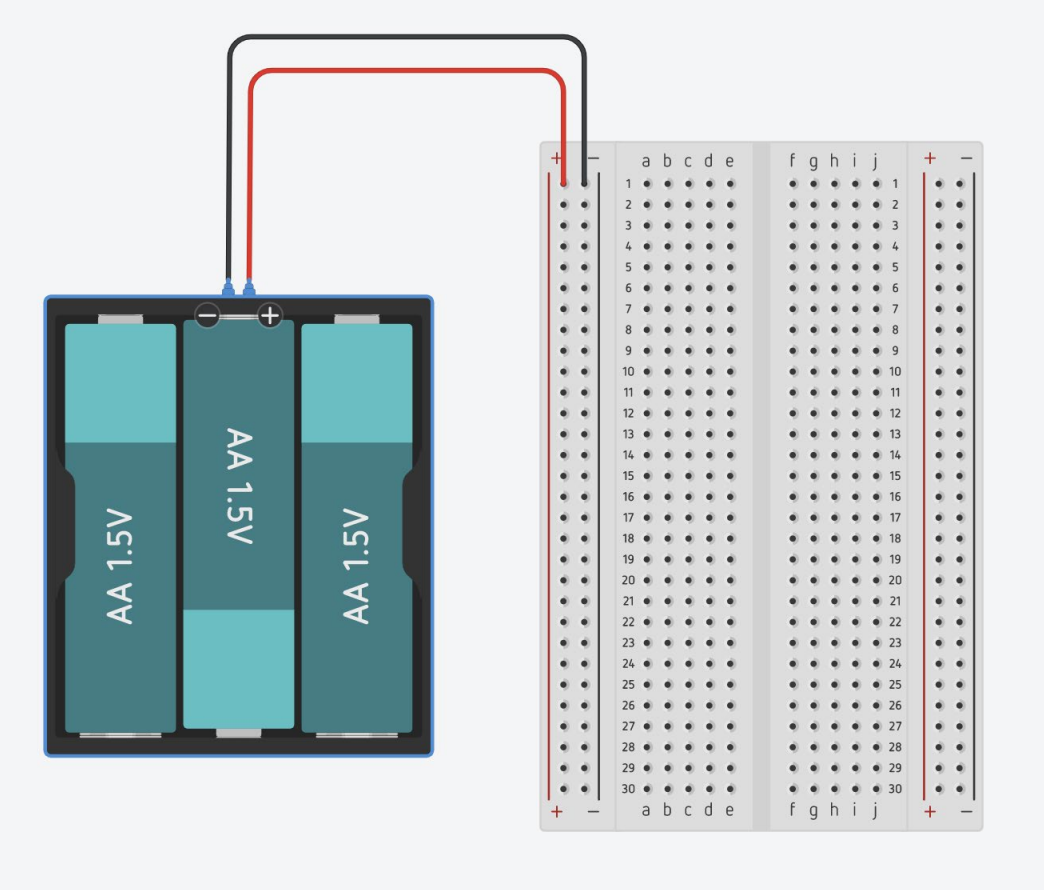


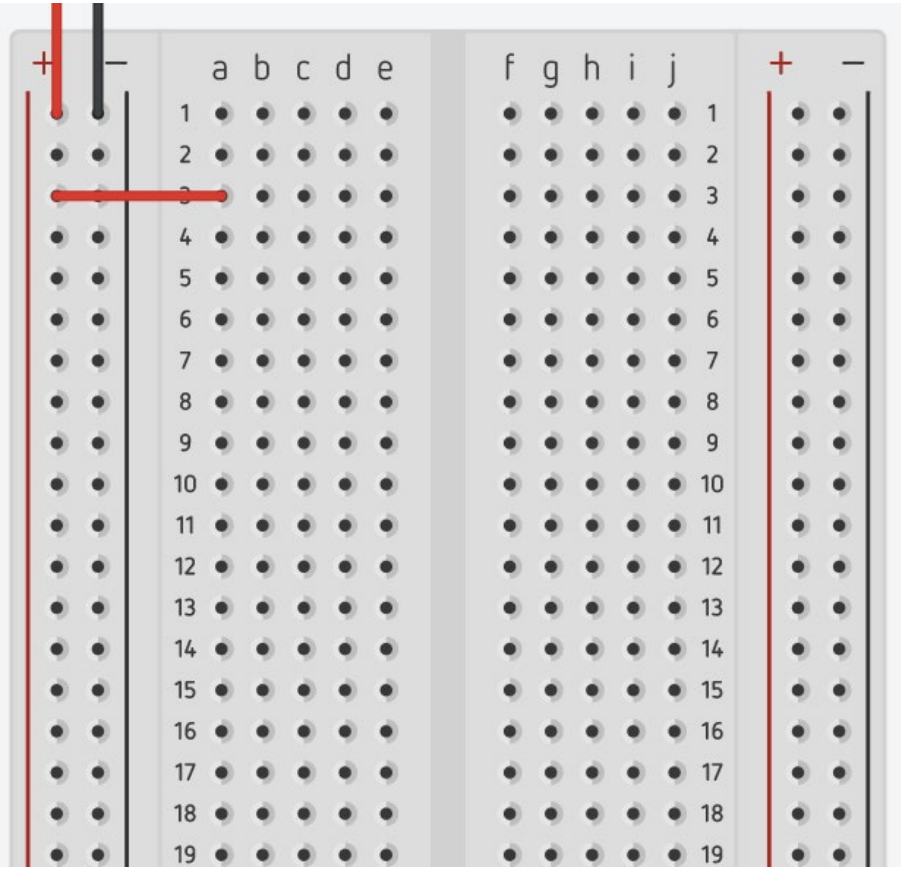
Figure B: Drawing of your Circuit

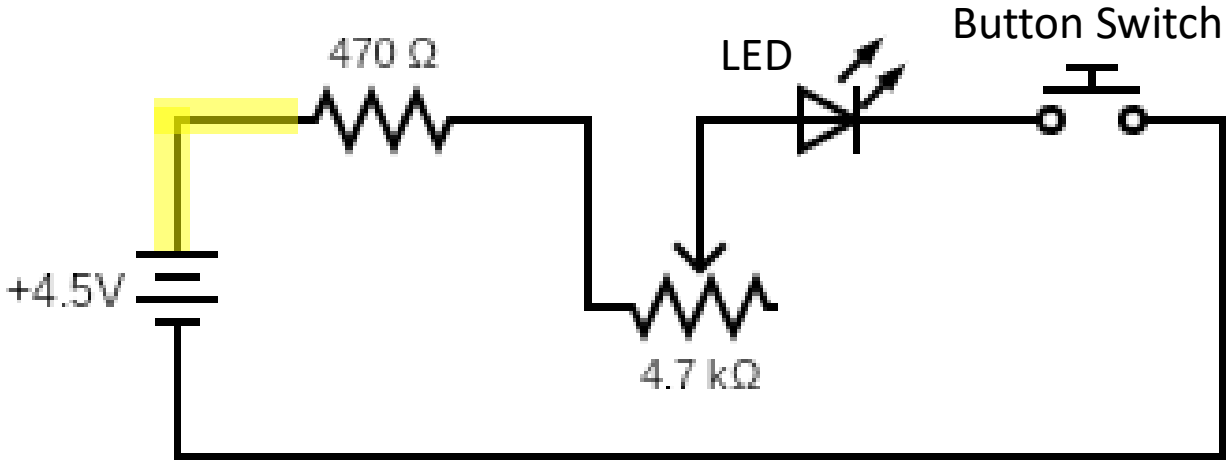




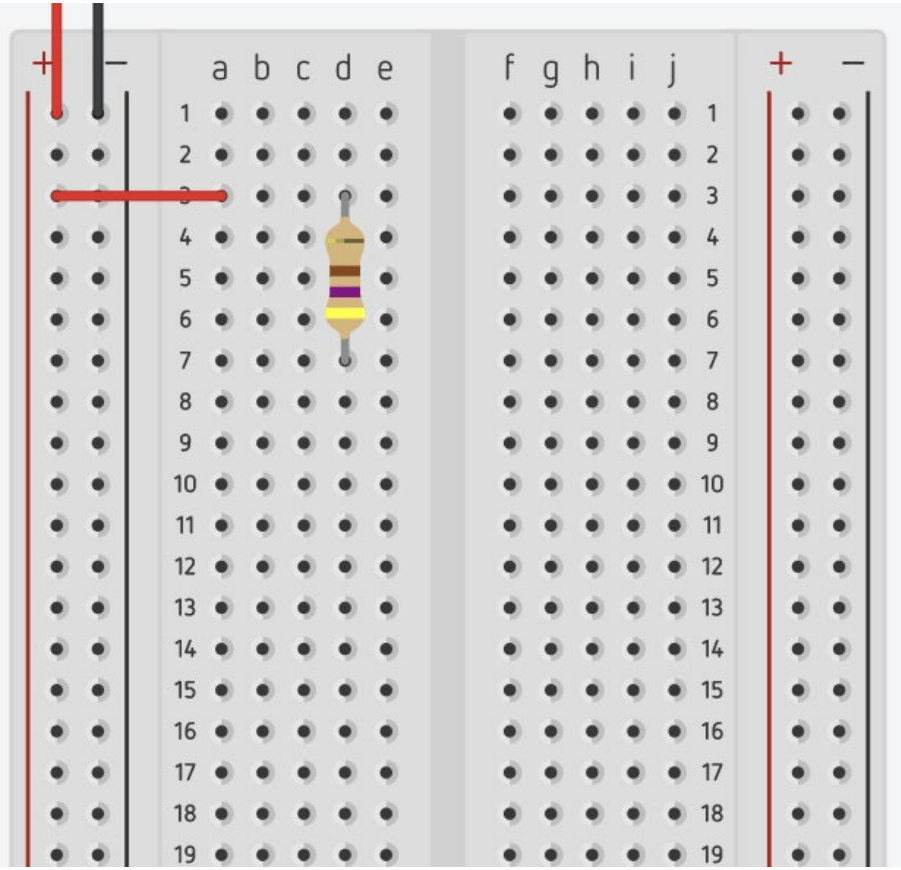
Hook up your 4.5volt battery to the breadboard

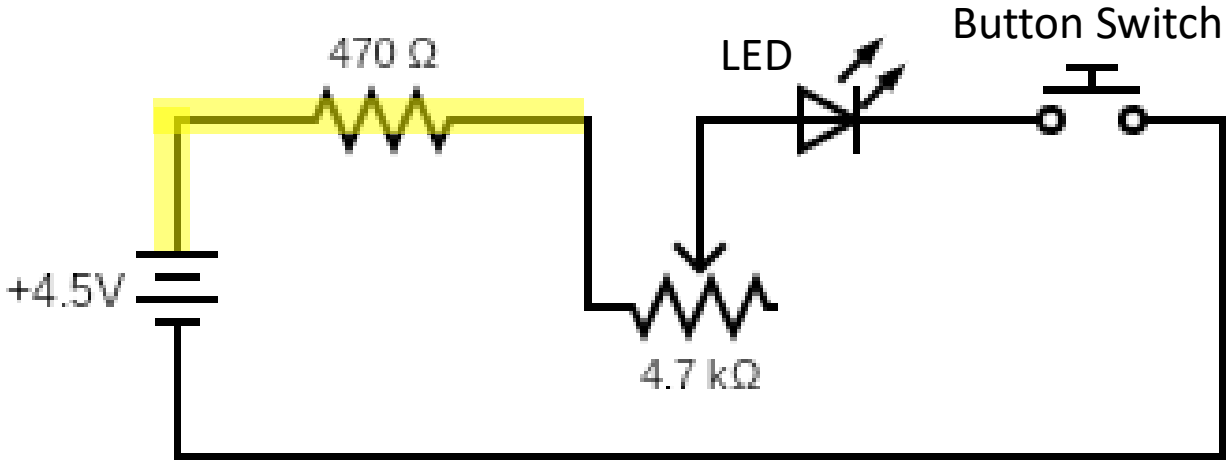
Make sure the positive (+) and negative (-) ends of the battery are connected to the appropriate (+) and (-) power buses on the breadboard. Make sure the battery is turned off! Only turn on the battery after the circuit is completed!



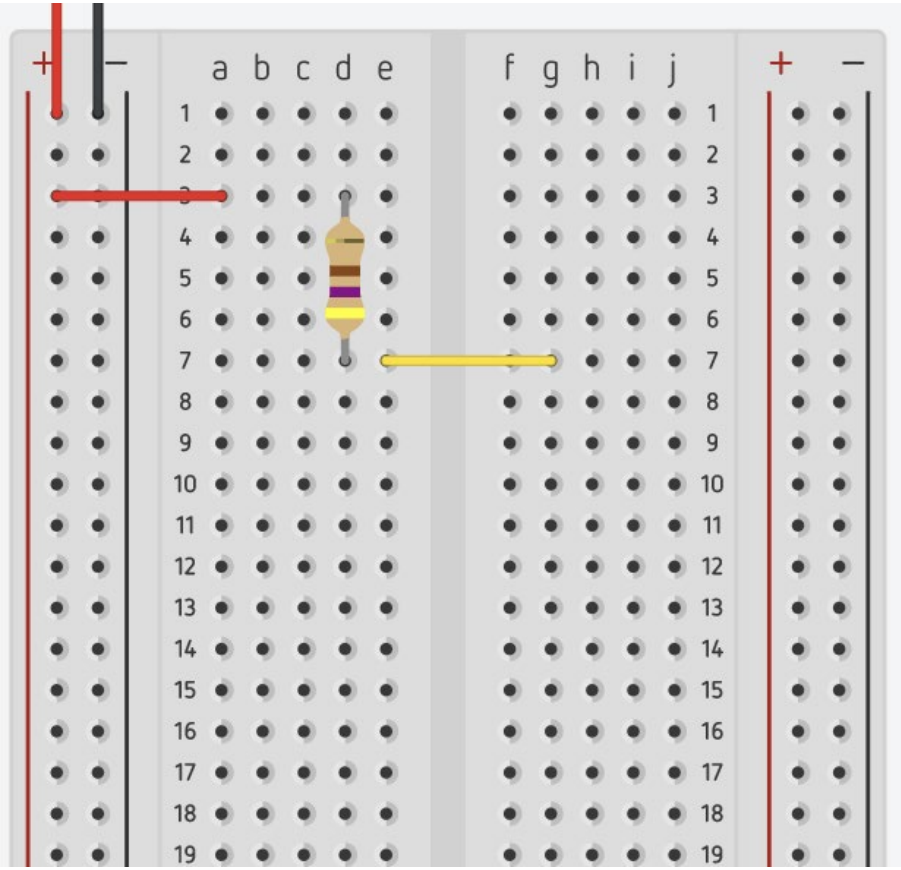


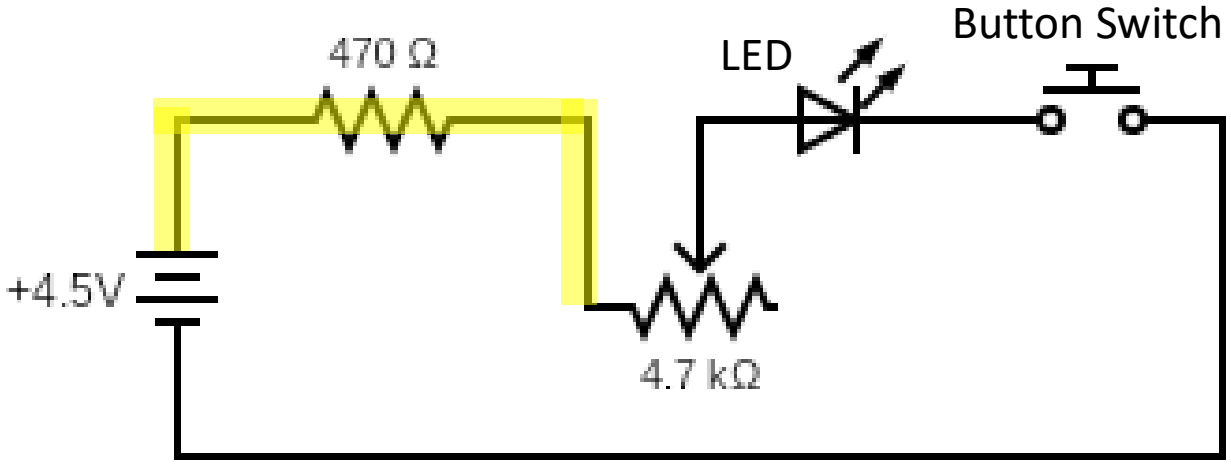
Connect a jumper cable from the (+) power bus to 3A on the terminal strip.



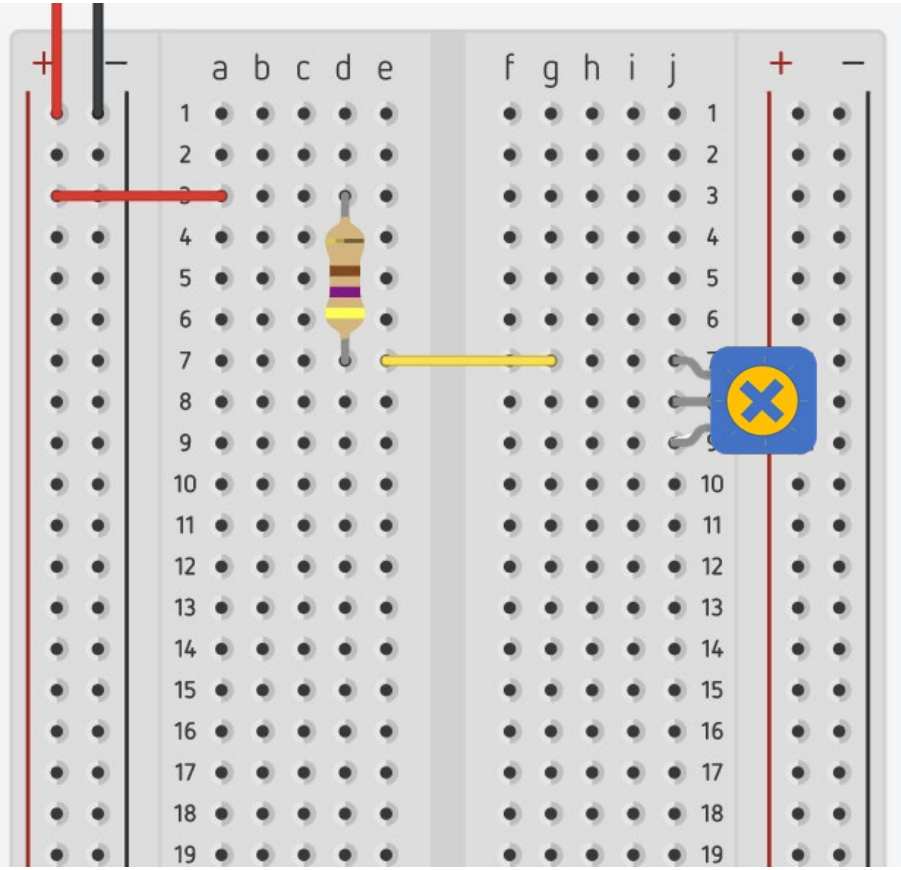


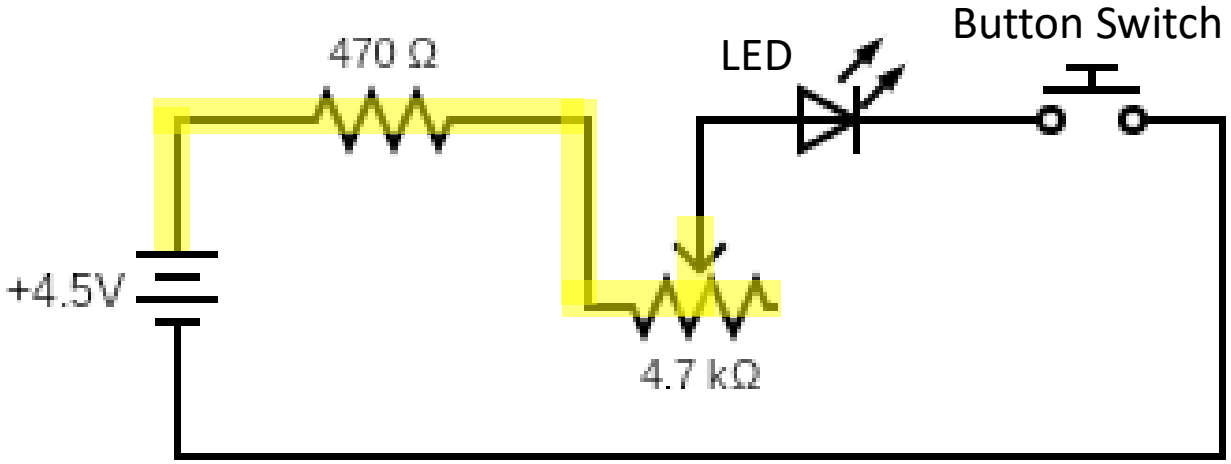
Connect your 470Ω resistor to 3D and the other end to 7D



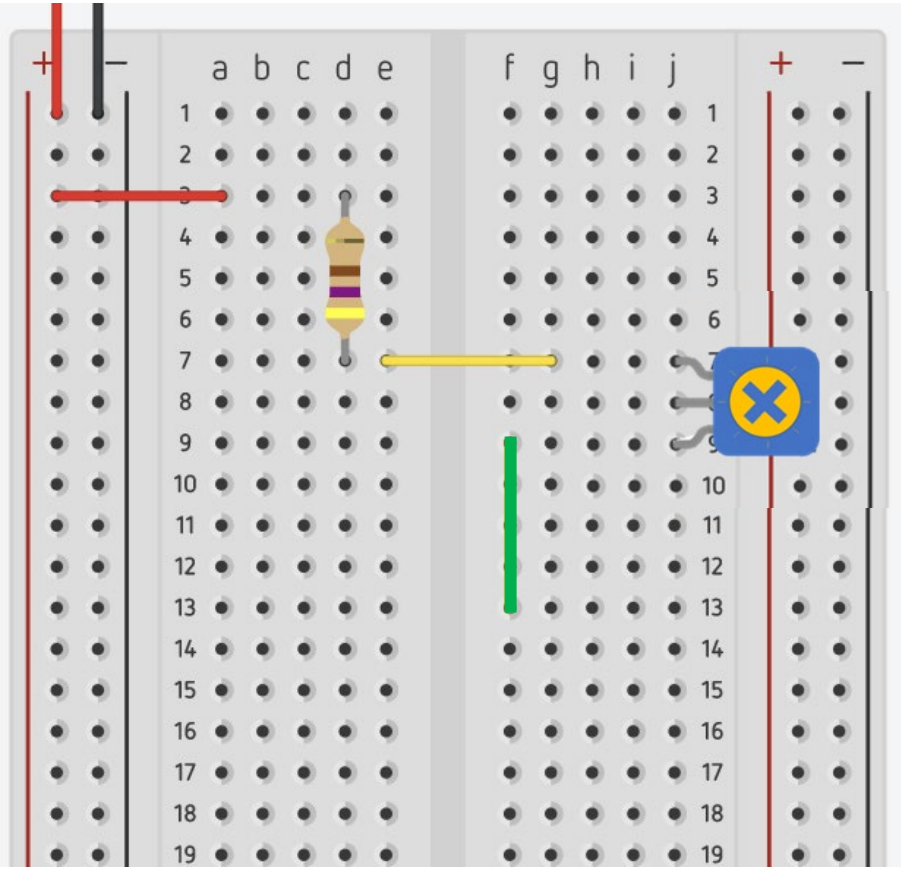


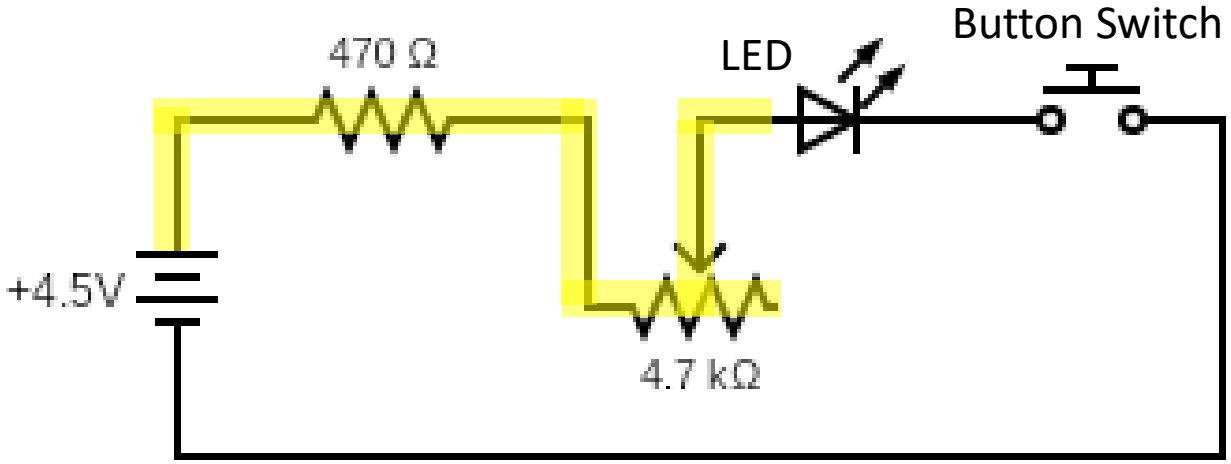
Connect a jumper cable 7E to 7G



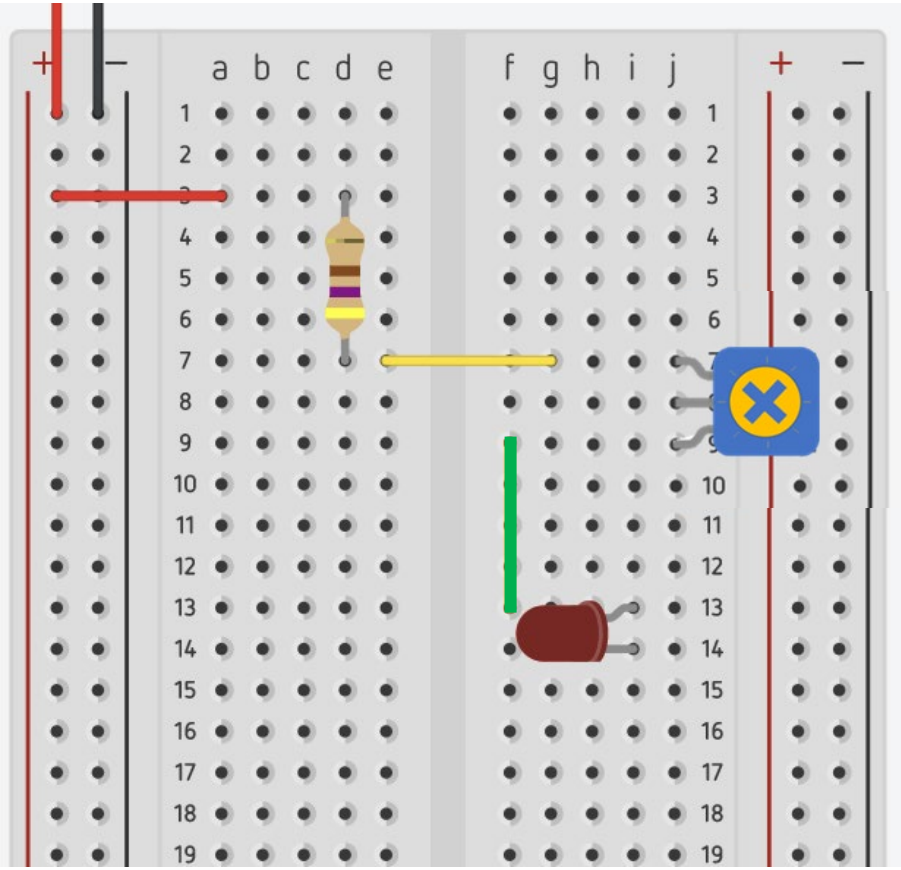


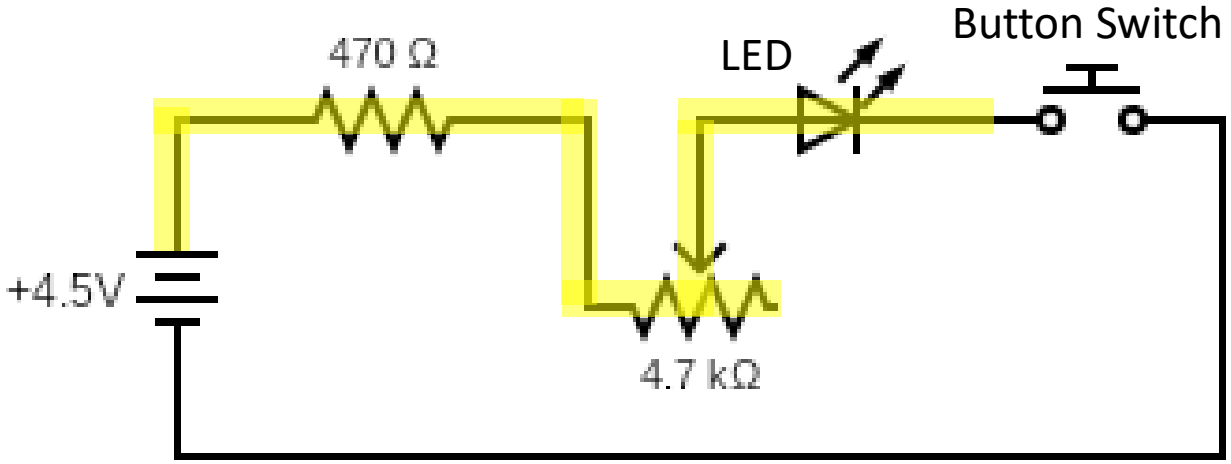
Connect a potentiometer so that the middle pin is in 8J and the side pins are in 7J and 9J.



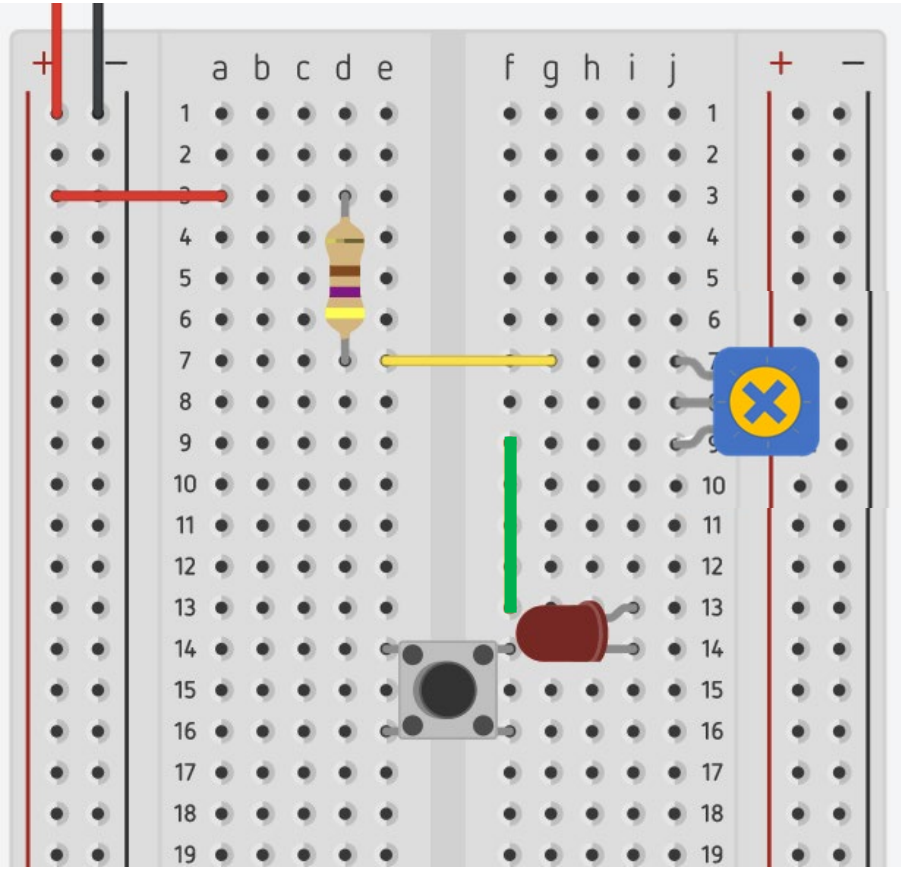


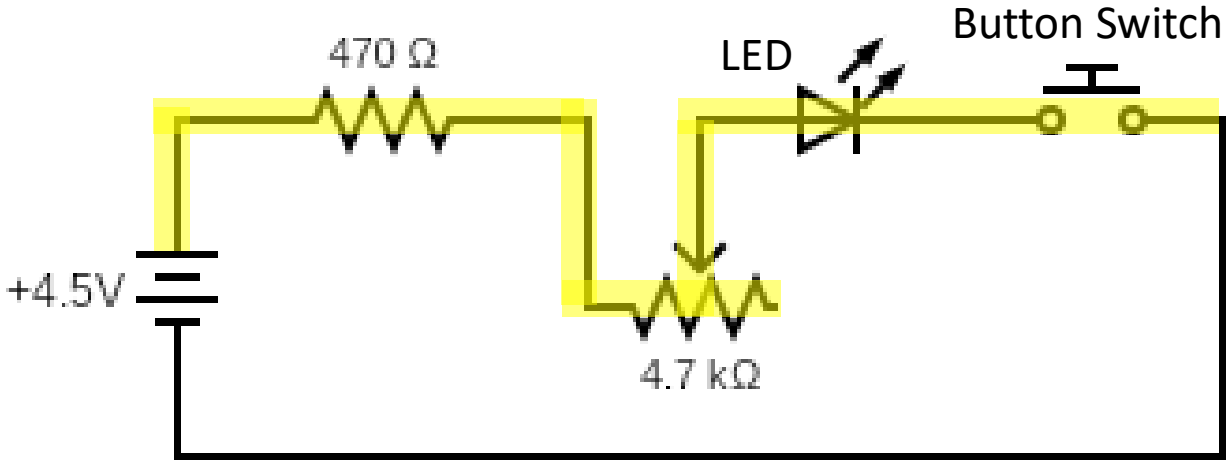
Connect a jumper cable from 9F to 13F.



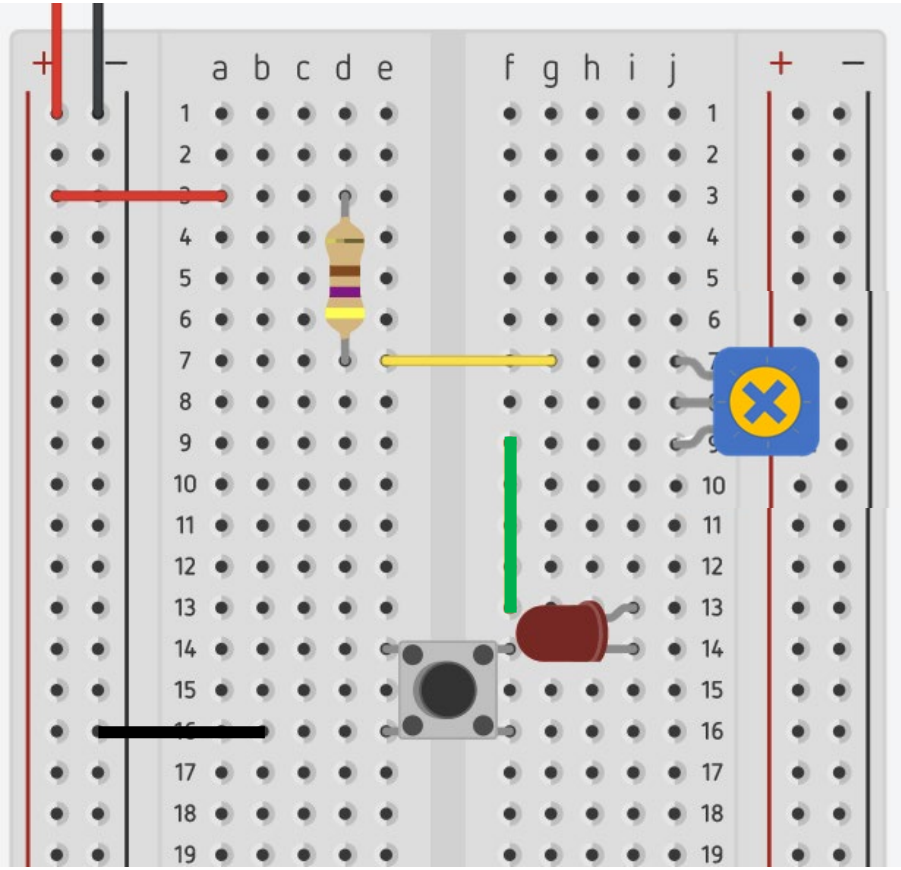


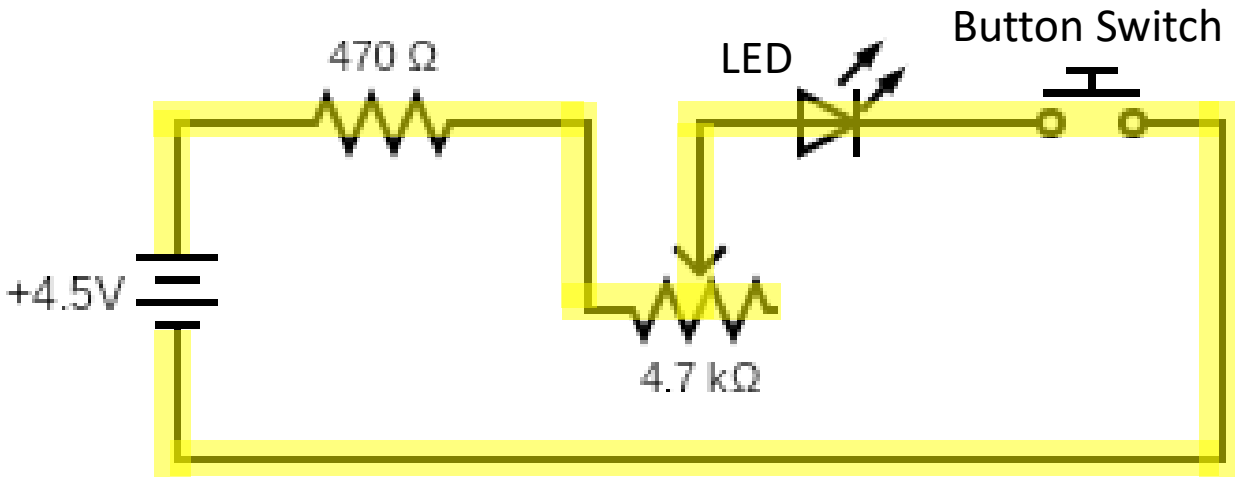
Connect the (+) leg of your LED resistor to 13i and the other (-)end to 14i



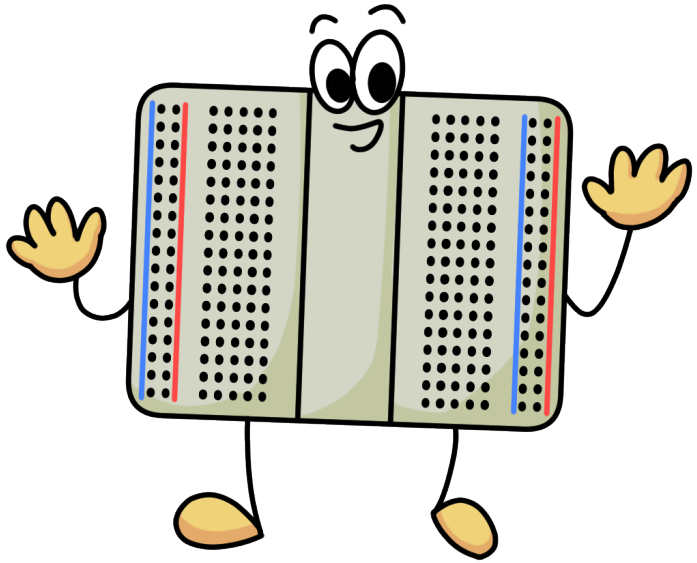


Connect the push-button pin so that pins on the same side are in 14E and 14F and the other pins from the same side are in 14F and 16F.





Connect a jumper cable from 16B to the (-) power bus on the breadboard.



Light up LED when button switch is pressed and use the pot to adjust the brightness of LED.

This circuit combines the previous two circuits. Simple circuits can be combined to create more complex circuits!

SQUARE BRAIN

BUTTON SWITCH & POT CIRCUIT