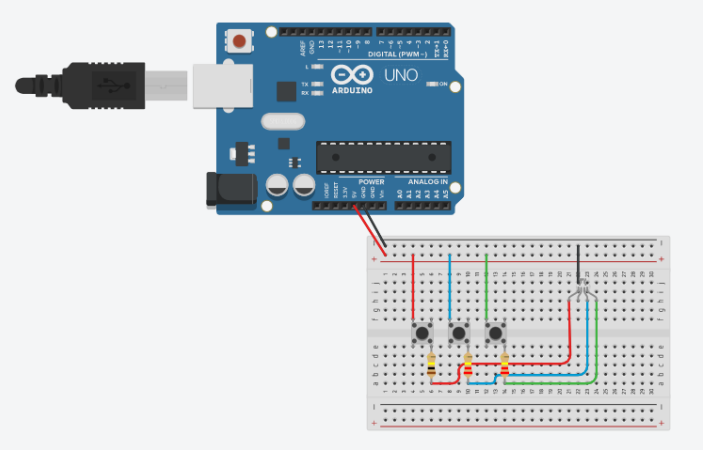
Aufgabe 1 - Teil A

1) 3 Taster um RGB LED Manuell zu steuern



Bauteile:

1 Breadboard

7 Jumperkabel

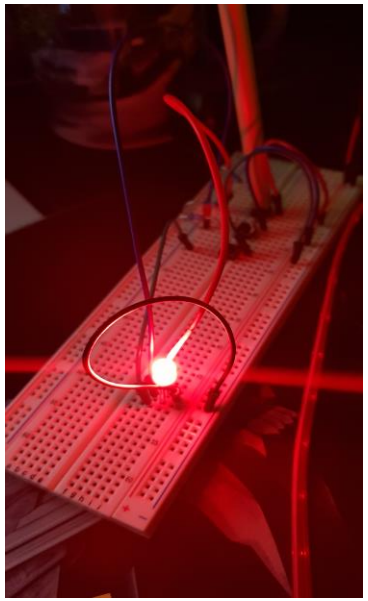
3 Buttons

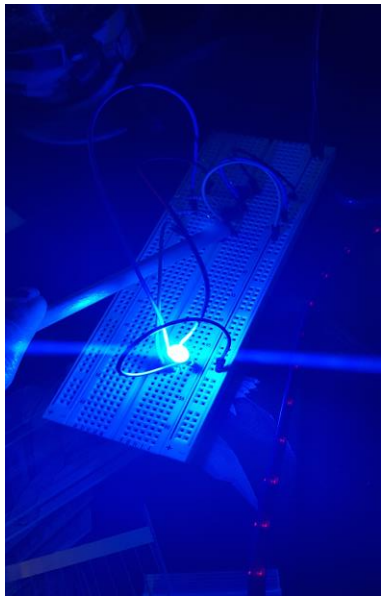
3 Widerstände

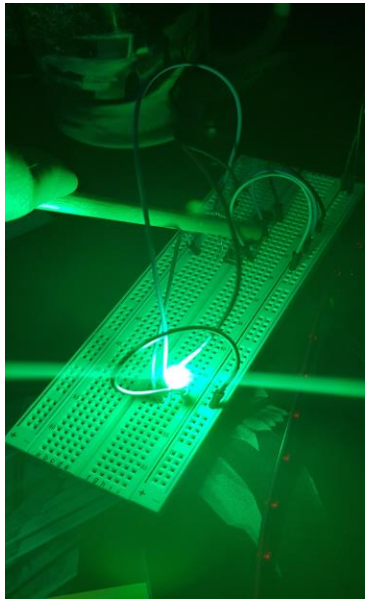
1 LED

1 Stromversorgungsmodul

1 9v batterie

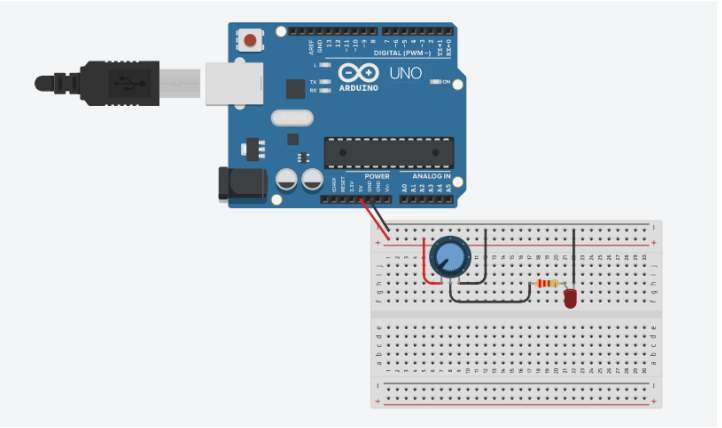






Aufgabe 1 - Teil A

2) LED Lichtdimmer mit potentiometer



Bauteile:

1 Breadboard

4 Jumperkabel

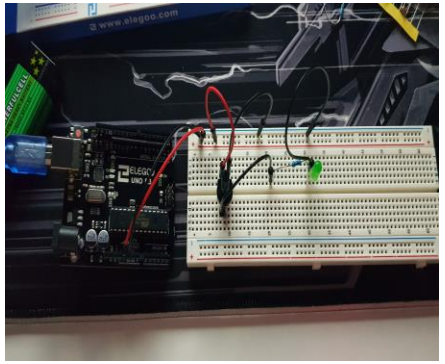
1 Potentiometer

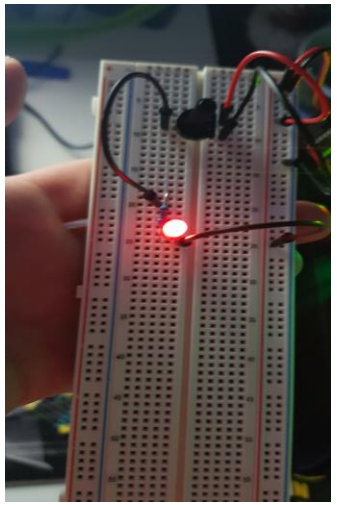
1 Widerstände

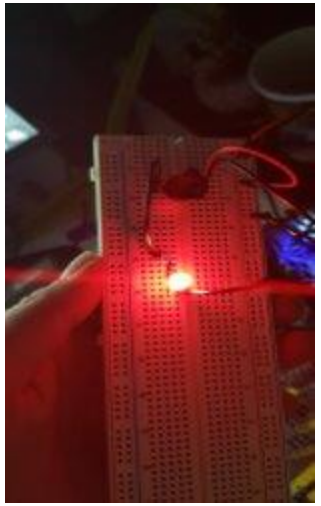
1 LED Grün

1 Stromversorgungsmodul

1 9v batterie

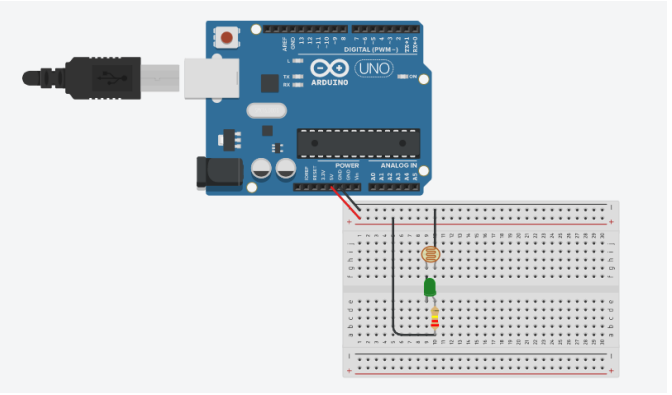






Aufgabe 1 - Teil A

3) LED Lichtdimmer mit spannungsteiler



Bauteile:

1 Breadboard

3 Jumperkabel

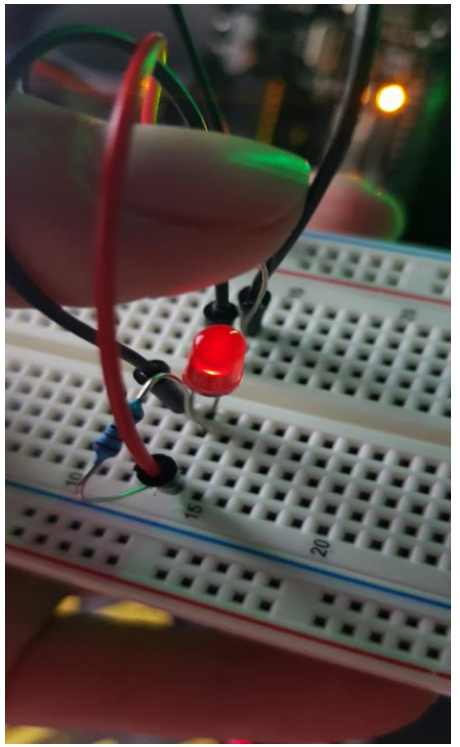
1 Fotowiderstand

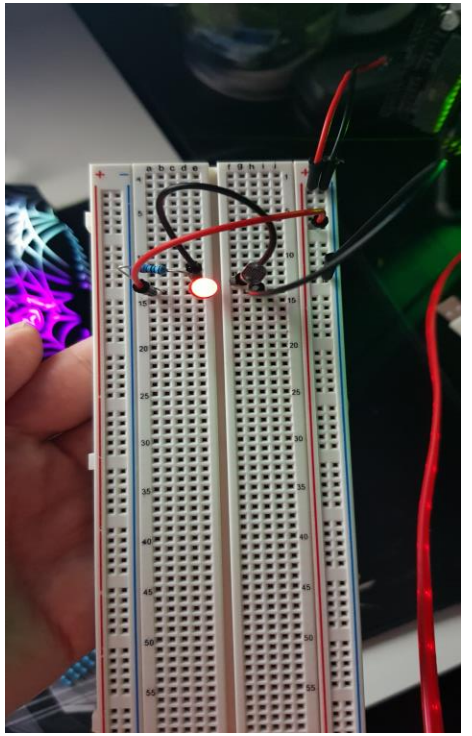
1 Widerstände

1 LED Grün

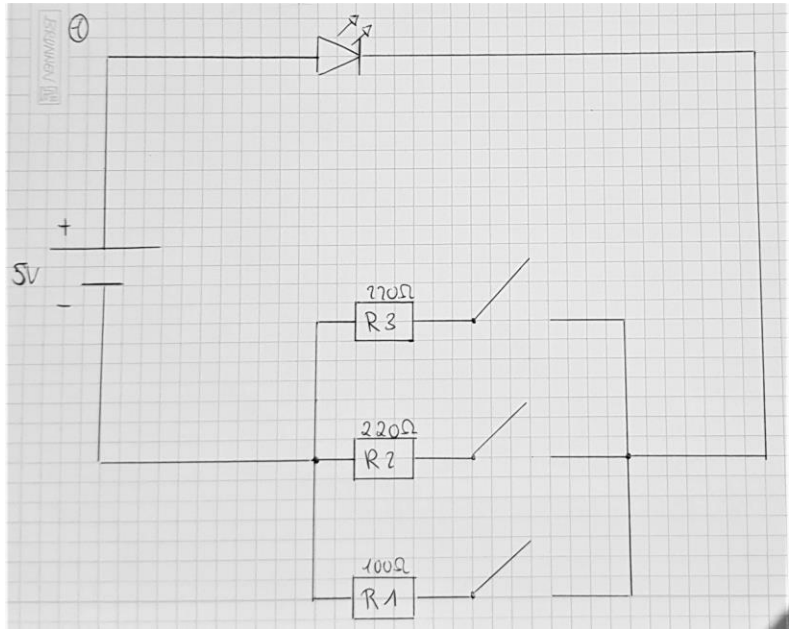
1 Stromversorgungsmodul

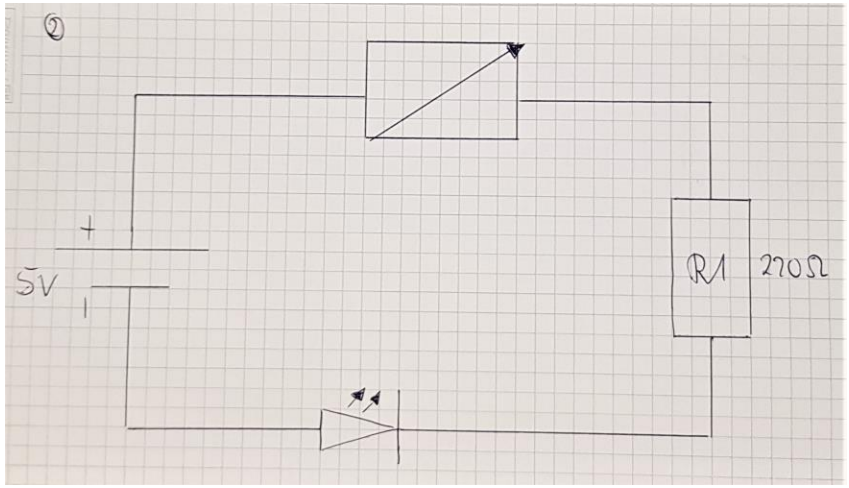
1 9v batterie

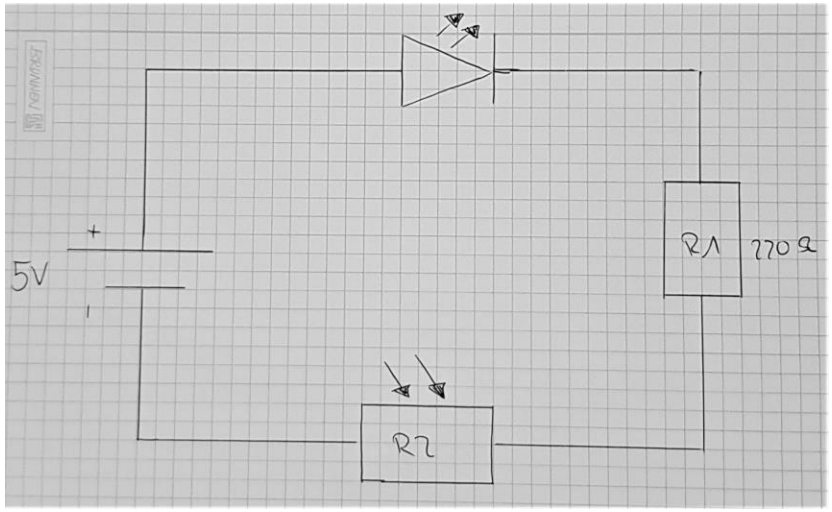




Zeichnung







Vorgehensweise

1. Stromkreis gezeichnet
2. Einzelteile in TinkerCAD zusammengefügt
3. Anschließend auf dem Board nachgebaut
4. Am Computer angeschlossen