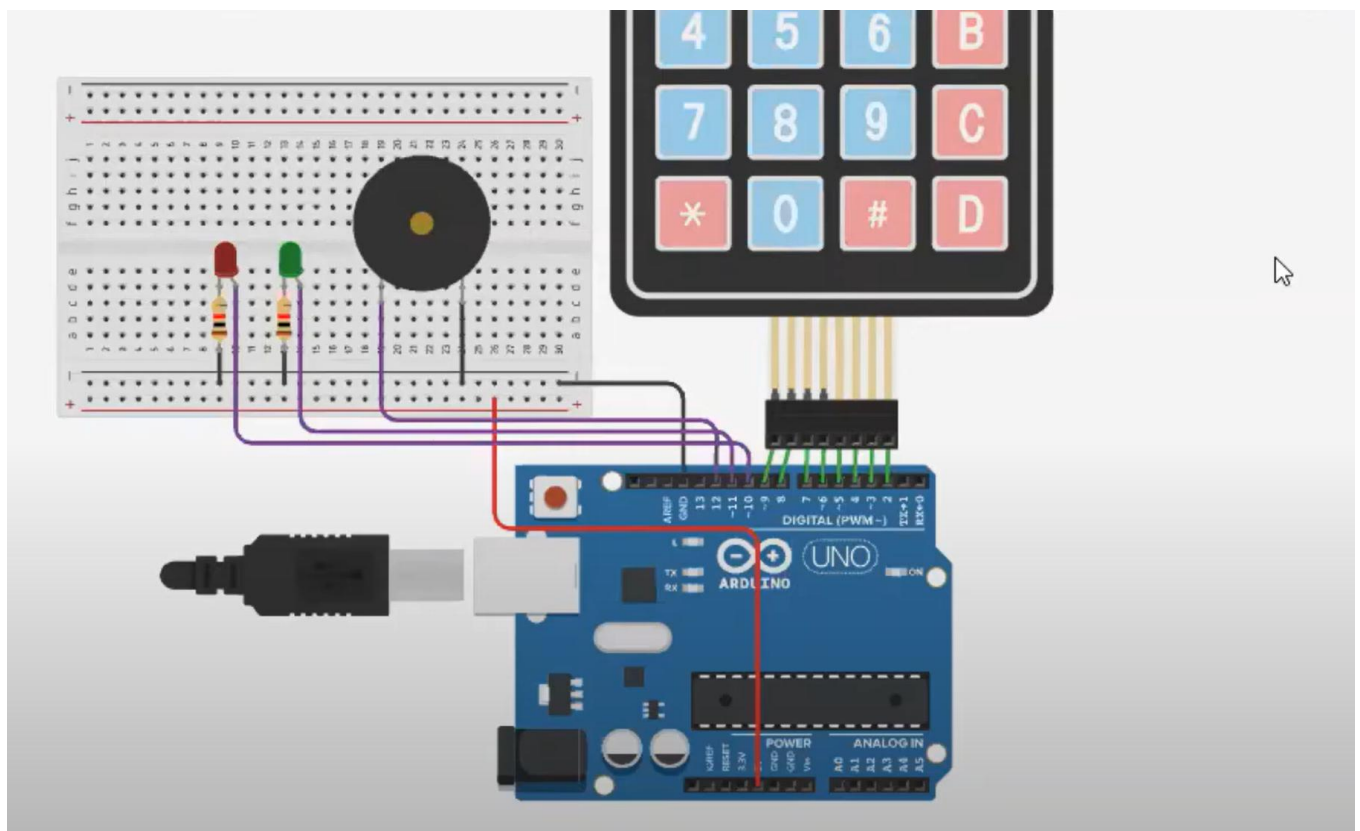


## #4: Password Protected Security System project using Arduino, Keypad, Piezo Buzzer and LEDs on TinkerCAD

Circuit Connections and its Working:



The input device used here is the 4\*4 [keypad](#). It has 8 terminals and here each terminal is connected to one digital pin of the Arduino board to allow Arduino to receive input from the keypad. Pressing of each key triggers a particular function of each of the 8 terminals and hence the input is received by the Arduino.

The [breadboard](#) is going to house all the external connections done to the Arduino board. So the power supply line and Ground line are specified separately by making a connection from 5V and GND pins from the Arduino board respectively.

We will be using 2 two [LEDs](#) along with a Piezo buzzer as output. One LED can be chosen RED and the other can be chosen GREEN. The **Cathode** of the LEDs is connected to the ground line through resistors and the **Anode** is connected to the digital pins of Arduino, D10, and D11 respectively.

The positive terminal of the Piezo [buzzer](#) is connected to another digital pin of Arduino, say D12. The negative terminal of the buzzer is connected to the ground line on the breadboard.

Code:

<https://github.com/sami-118/tinker-cad-project.git>