

## Overview:

This program's purpose is to be an interactable math game. The system will prompt the user a multiplication problem and give them 4 possible answers to choose from. This would be visually displayed through the serial monitor in the Arduino IDE. The system will wait for the user's input from the buttons with a yellow LED indicating that it is waiting for input. If the user presses the correct button, a green LED will luminate. If the user presses the wrong button, a red LED will luminate.

## Design:

### Parts List:

<u>Parts</u>	<u>Quantity</u>
Arduino Uno Rev 3	1
Breadboard	1
1k $\Omega$ resistors	7
LED	7
USB 2.0 Type A/B Cable	1

\*Computer is a given.

### Software Used:

<u>Software:</u>	<u>Version:</u>	<u>Operating System</u>
Arduino IDE	1.8.15	Windows 10

**Diagram:**