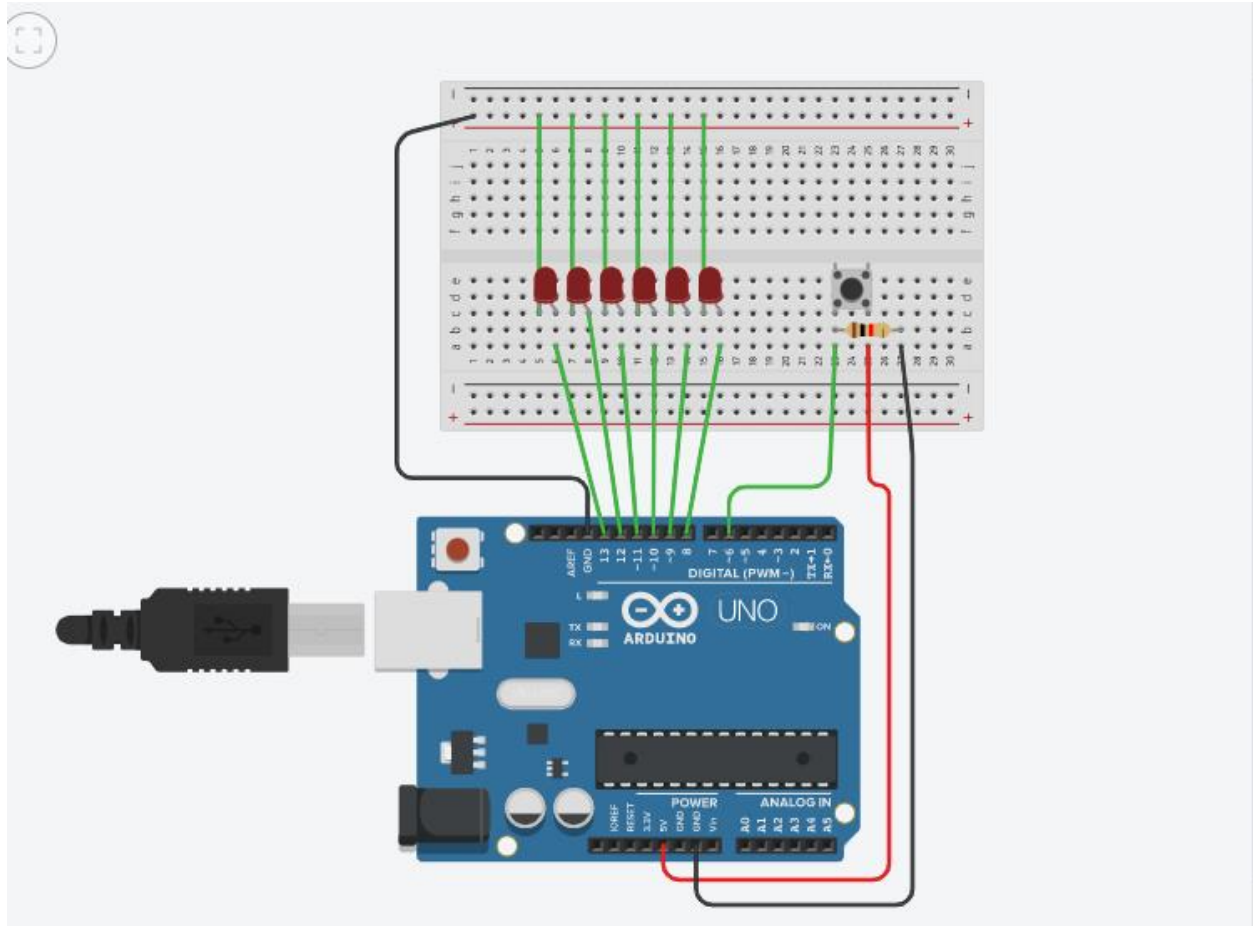


# Evaluation

## Circuit Diagram



## Theory

### Concepts Used

1. Interfacing of LEDs with Arduino.
2. Interfacing of a pushbutton with Arduino.
3. Why ground is mandatory?
4. Algorithm for switching between light patterns.

### Learnings and Observations

1. Working of an LED
2. Connecting terminals of a push button with Arduino

3. Providing a pathway for the small voltage released by Arduino via ground.
4. A mere effect of 100-200 millisecond in delay statement can cause observable change.

## Precautions

1. Always ensure the port you're uploading to is never named COM2.

## Learning Outcomes

I can now design different Diwali light patterns according to my wish successfully using Arduino.