## Illumination

**Project Overview:** In this project, we will explore how a robot can mimic eye movements and change eye color.







# **Prerequisite**

- Light
- Luminance
- Intensity/ luminance intensity
- Basic knowledge of color

### **Learning Outcomes**

#### We Will Learn About-

- Waves, wavelength, Intensity, luminance, luminous intensity.
- Color mixing theory
- RGB color model
- RGB LEDs, and its applications

### **Ask About....**

1. How is intensity different from brightness?

# **STEAM**

**SCIENCE:** Waves, wavelength, Light, luminous, luminous intensity, color mixing theory.

**ARTs:** Shape and designs, color combination

**Technology/Engineering:** 

Introduction to microcontrollers and coding, Sequential programming for LED operation.

Mathematics: Calculate color using color mixing theory.
Color intensity level = 0 to 255.

If R=255, G=255, B=255

it produces white color.