

## Video-18

### Motion Controlled Color Changer

This project uses an **Arduino Uno** to detect motion and change the color of an **RGB LED** accordingly, while also activating a **buzzer** as an alert. A **PIR sensor** continuously monitors for movement. When motion is detected, the buzzer sounds and the RGB LED lights up **red**. When no motion is detected, the buzzer turns off and the LED glows **green**. This project is a great example of using sensors for **real-time interaction**, suitable for **security indicators**, **room lighting automation**, or **interactive art installations**.