

# Video-21

## Dimmer Circuit

This project demonstrates how to control the **brightness of a bulb or LED** using a **potentiometer** and an **Arduino Uno**. The potentiometer provides an analog input that is read by the Arduino, and this value is then scaled and sent to the **PWM pin** connected to the bulb. By rotating the potentiometer, the output voltage (PWM signal) changes, allowing you to **dim or brighten the bulb smoothly**. The brightness level is also printed to the **Serial Monitor** in real time.

This is a great project to learn about **analog input/output**, **PWM (Pulse Width Modulation)**, and **basic interfacing with actuators**.