## Video-03

Light Intensity Measurement using LDR Sensor and Arduino UNO

This project involves measuring ambient light intensity using an LDR (Light Dependent Resistor) and an Arduino Uno. The LDR is connected in a voltage divider configuration, and its analog output is read through analog pin AO. Based on the light level, the Arduino controls an LED—turning it on in darkness and off in bright light. This simple system demonstrates how LDR sensors can be used for automatic lighting, smart energy systems, or day-night detection. Real-time light readings can also be viewed on the serial monitor for monitoring or analysis.