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Interfacing NeoPixel Strip with Arduino UNO

This project demonstrates how to interface a **NeoPixel RGB LED strip** with an **Arduino Uno**. Using the **Adafruit NeoPixel library**, individual LEDs on the strip can be controlled to display various **colors, brightness levels, and animations**. The data pin of the NeoPixel strip is connected to a digital pin on the Arduino (commonly D6), and power is supplied through an external 5V source for longer strips. This project is ideal for **creating colorful lighting effects**, **visual indicators**, or **customizable LED displays**.