The Hardware

Here's what you'll need to create this project:

- Two red LEDs (LED1 and LED2)
- Two yellow LEDs (LED3 and LED4)
- Two green LEDs (LED5 and LED6)
- Six 560 Ω resistors (R1 to R6)
- Two 10 k Ω resistor (R7 and R8)
- Two 100 nF capacitors (C1 and C2)
- Two push buttons (S1 and S2)
- One medium-sized breadboard
- One Arduino and USB cable
- Various connecting wires

The Schematic

Because we're controlling only six LEDs and receiving input from two buttons, the design will not be too difficult. Figure 4-26 shows the schematic for our project.

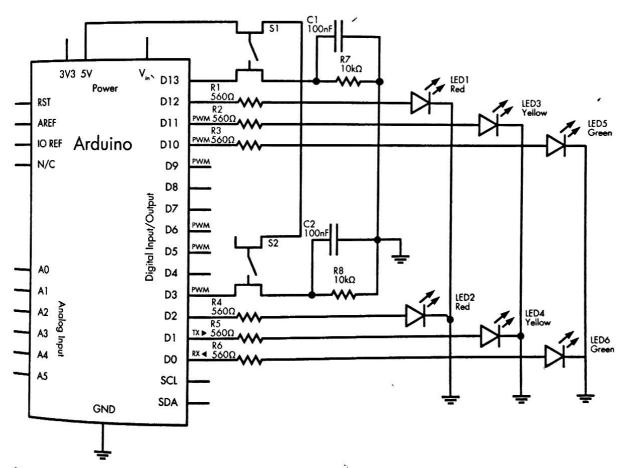


Figure 4-26: Schematic for Project 5