

Arduino Game Timer — I²C LCD + LEDs + Buzzer

Parts List

- Arduino Uno or Nano
- 16x2 LCD with I²C backpack
- Momentary push button
- 3x LEDs + 330Ω
- Piezo buzzer

Wiring

Function	Connection	Notes
LCD	SDA→A4, SCL→A5	VCC→5V, GND→GND, addr 0x27/0x3F
Button	D2 ↔ GND	Use INPUT_PULLUP
Buzzer	+ → D9, – → GND	Use tone()
LED Green	D5 → 330Ω → anode	Cathode → GND
LED Yellow	D6 → 330Ω → anode	Cathode → GND
LED Red	D7 → 330Ω → anode	Cathode → GND