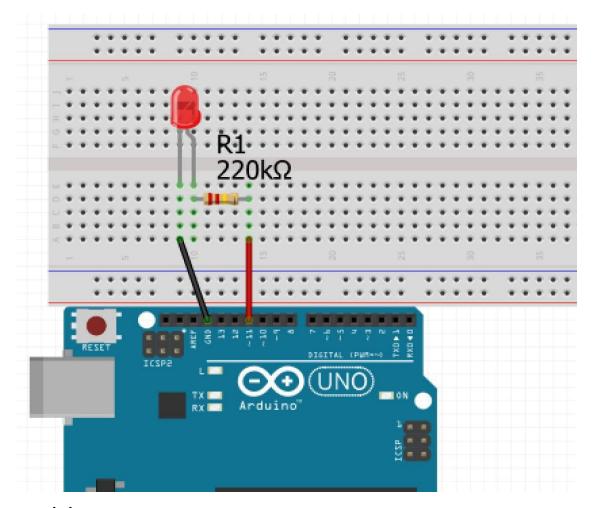


Exercise 1: Basic LED

In this exercise, you'll build a basic LED (light emitting diode) that blinks on and off at a certain frequency. After you build the system using the code provided, try changing the delay parameters to make it blink faster or slower.

Step 1: Assemble the Arduino and breadboard.



Parts needed:

Arduino board bread board 1 LED



1 220k Ohm resistor

2 jumper wires



Step 2: Program the Arduino.

sketch_nov27a | Arduino 1.8.8 (Windows Store 1.8.19.0) File Edit Sketch Tools Help Verify sketch_nov27a § int LED1 = 11; //declares pin 11 to be LED1 void setup() { pinMode(LED1, OUTPUT); //declares LED1 to be an output void loop() { digitalWrite(LED1, HIGH); // sends signal from pin 11 delay(3000) // signal will las 3000 milliseconds(3 seconds) digitalWrite(LED1, LOW); // cuts off signal from pin 11 delay(4000) //will delay for 4000 milliseconds(4 seconds) // loop will repeat itself