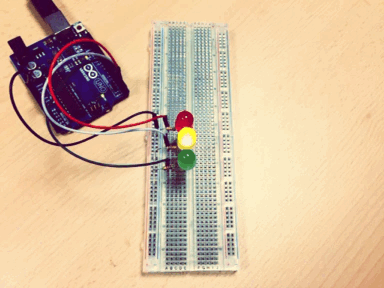
**Lab 4: Three-colour traffic light!**



Building on the functions you saw in *Blink* and the electronics you have learned about this week, you must create a traffic light with three LEDs (one green on pin 4, one amber on pin 3, and one red on pin 2) which must be lit as follows:

* Green lit for 3 seconds (the green LED must be the first one to light up)
* Amber lit for 1 seconds (as in real life, the green light must turn off when the amber light turns on)
* Finally, the red light should be on by itself for 3 seconds

This sequence must be executed over and over while the Arduino is powered on.

Hint:

Based on the Arduino functions seen this week, your mission is to write an Arduino sketch that will blink 3 virtual LEDs (green→pin 4, orange→pin 3, red→pin 2). This program will must abide by the following instructions:

1. All the pins have to be set as OUTPUT at the beginning of the sketch
2. The green LED (on pin 4) is switched on for 3 seconds (green LED will be the first to light up) then it is switched off
3. When the green LED is switched off, orange LED is switched on for 1 seconds then it is switched off again
4. When the orange LED is switched off, red LED is switched on for 3 seconds then it is switched off again
5. These instructions must run again and again in the loop()!