**#5 – Fade an LED**

By using a PWM pin on the Arduino, you will be able to increase and decrease the intensity of brightness of an LED.

**Parts Needed**

* (1) Arduino Uno
* (1) USB A-to-B Cable
* (1) Breadboard – Half Size
* (1) LED 5mm
* (1) 220 Ω Resistor
* (2) Jumper Wires

**Project Diagram**

Click Image To Enlarge

**Project Code**

1. Connect the Arduino board to your computer using the USB cable.
2. Open project code  –  **Circuit\_05\_Fade**
3. Select the board and serial port as outlined in earlier section.
4. Click upload button to send sketch to the Arduino.