

Fade

Code Club Challenge – 01-02

Setup:

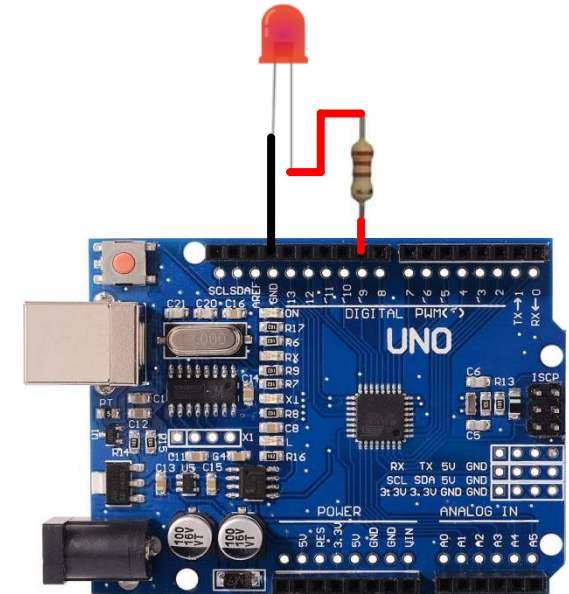
- Load the sketch from the IDE File/Examples/01.Basics/... menu
- Connect up your circuit as shown (disconnected from USB)
- Follow the tutorial at <https://www.arduino.cc/en/Tutorial/Fade>
- Run the code and observe the brightness fading effect
- Show your understanding of the code by explaining it to your teacher

Code Challenges:

- Make the 'dimming' twice as fast as the brightening phase
- Make the 'dimming' phase instant
- Determine what happens if 'brightness' exceeds 255 or goes negative

Can you:

- Explain why the built-in LED can not be used with this code?
- Give examples of real life applications for this PWM function?
- Think of ways to modify the code to create other fading functions?



WARNING!

Always disconnect power before making/changing circuit connections