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Introduction To Microcontrollers Electronics – Lesson 4: Timers and Timing

FORMULAS

The following formulas and information are meant to go with the online lesson found here: http://www.pyroelectro.com/edu/microcontrollers/timers_timing/

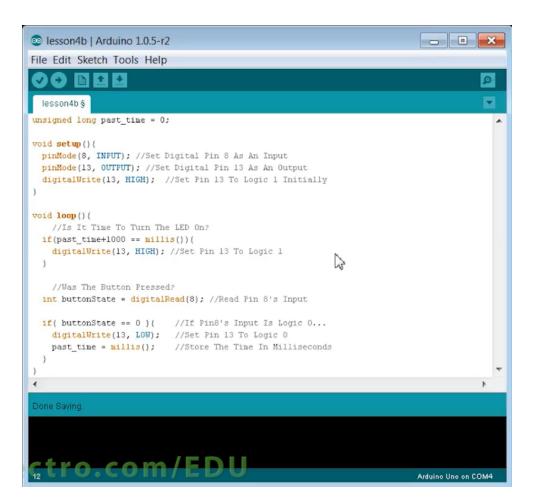
EXAMPLE ARDUINO PROGRAM

In lesson 4 we explored the world of timers and timing functions that Arduino offers. In the first program we used the delay function to perform a seeming simple task of blinking an LED. The delay function paused the program for 1,000 milliseconds or 1 second.



After a successful demonstration, we then changed the 1,000 inside of the delay() function to a 250, which made the LED blink much faster since the program pauses were then only 250 millliseconds.

The second program that we built for lesson 4 looked at building a simple timer that turned an LED off for 1 second and then turned it back on.



ADDITIONAL INFORMATION

If you have any questions about the formulas or information found in this document, please feel free to head on over to the forums and ask us some questions!

http://www.pyroelectro.com/forums/viewforum.php?f=25