NAME:	STUDENT #·	L15-1
TWINE.		

**EECE 259: Introduction to Microcomputers** 

**Lecture Quiz** 

Feb 7, 2011

1. Count the number of times switch #5 goes from "0" to "1" in r2 and display this on the red LEDs.

a) Given a value in r6 between 0 and 9, compute the associated 8-bit pattern for the 7-segment display in r2.
b) Write subroutine digit2seg7(Xin,Yin) to return Xout, Yout. The X values are numbers, and the Y values are 32-bit patterns intended the 7-segment display. Compute Xout = Xin ÷ 10 with remainder R. For Yout, shift the current display (Yin) right by 1 "display position" and put the pattern for R in the HEX3 position.