EE 308 HW 5 Spring 2002

EE 308 - Homework 5

Due Feb. 18, 2002

- 1. For the homework problems which follow assume you have included the file hc12b32.h in your C program. Thus, you can refer to PORTB when you want to access a byte at address 0x0001. Where I ask for "some code" just write that part of a C program which will do the task. Where I ask for "a program" write a complete program, include the #include "hc12b32.h" line, the declaration of variables, the main() function, etc.
- 2. Write some C code which will make bits 5, 3, 1 and 0 of PORTB output and the other bits of PORTA input.
- 3. Write some C code which will set bits 7 and 3 of the eight-bit register at address 0x0075 while leaving the other bits unchanged.
- 4. Write some C code which will clear bits 6 and 4 of the eight-bit register at address 0x0076 while leaving the other bits unchanged.
- 5. Write some C code which makes PORTA an input, PORTB an output, then will read PORTA, and write a 0xAA to PORTB if Bit 4 of PORTA is high, and write a 0x33 to PORTB if Bit 4 of PORTA is low.
- 6. Write a C program which implements Part 4 of Lab 5.