

EE357 – spring 2013 LAB6 (10 pts.)

Mar. 1st, 2013

Input a 4-digit binary number through the DIP switches, and output the number on the LED's: 'ON' on the switches should be interpreted as 1.

Extra credit (5 pts) – Binary adder/subtractor, due Mar. 4th (12:30 ~ 1:00 PM.) in EEB230:

1. Input two non-zero numbers through the DIP switches, and output the sum or difference on the LED's as requested.
 - 1.1 Input numbers are 4-bit binary numbers and unsigned.
 - 1.2 No overflow checking is necessary.
 - 1.3 '0000' on the DIP switches is used as a delimiting signal between operations.
 - 1.4 '0001' and '0010' signal addition and subtraction respectively.Example) An input sequence, '1000' – '0000' – '0001' – '0000' – '0001', displays the sum of '1000' and '0001', which is '1001'.
2. No hint will be provided; no partial credit will be given.
3. Demonstration first and then submitting a code.
4. The final grade will be based on the lesser of (total points obtained with extra credits) and (total points assigned without extra credits).