UNIVERSITY OF CALIFORNIA, DAVIS

Department of Electrical and Computer Engineering
EEC70 Assembly Language and Computer Organization Winter 2004

Program Assignment #1

Due on Friday January 30th at 11:59pm

Write a program that prompts the user to input

- 1) Integer A
- 2) Integer B
- 3) Number of logical left shifts for A (nsa)
- 4) Number of logical right shifts for B (nsb)

The program should perform the following operations and output the result of each

Signed Addition and Subtraction

$$C \le R1 + R2$$

 $C \le R1 - R2$

UnSigned Addition and Subtraction

$$C \le R1 + R2$$

 $C \le R1 - R2$

Notes:

Use input.s to perform the input and output to your program.

You do not need to include input.s when you submit your program.

You do not need to perform any error checking on the input.

Just make sure the program does not crash.

You can use any standard text editor to write your code.

To learn how to use input.s to obtain input from the user or display the result, refer to the source code of gcm.s and read the comments.

Sample Run (in display window) red is user input.

Enter Integer A: 4
Enter Integer B: 12

Enter the number of left shifts for A: 1 Enter the number of right shifts for B: 1

R1: 8 R2: 6

Signed Addition: 14 Signed Subtraction: 2 Unsigned Addition: 14 Unsigned Subtraction: 2