

York University
Lassonde School of Engineering
Dept. of Electrical Engineering and Computer Science
EECS2021
Computer Organization
Fall 2015

EECS2021	Lab Test 1_2	Computer Organization
Tuesday, Oct. 20 th , 2015		7:00– 9:30pm

Be sure that your program ends with “jr \$ra” for the program to complete execution without error message.

Question 1 (6 points)

Write an assembly code to read two numbers (x and y). If either x or y is negative, then write -1 to the console, else write 1. Submit as Q1.s

Question 2 (7 points)

Write an assembly program that reads two positive numbers from the console, then calculate the multiplication of these two numbers using repetitive addition and display the result on the console ($3 \times 5 = 3 + 3 + 3 + 3 + 3$)

Question 3 (7 points)

Write an assembly code to read an integer from the console, and print it in reverse binary order (consider only the low order 12 bits of the number you read).

For example if you read 6, that is 0000000000000000 000000000000110



Reverse these

You should display
011000000000 submit as Q3.s

Submit your program using the following command in a terminal (make sure you are in the directory containing your file Q?.s):

submit 2021 lab1_M_2 Q?.s where “?” refers to 1, 2, and 3