York University
Lassonde School of Engineering
Dept. of Electrical Engineering and Computer Science
EECS 2021
Computer Organization
Fall 2015
Monday Lab

EECS2021	**Lab Test 1_1**	**Computer Organization**
Monday, Oct. 19th, 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)

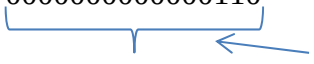
Write an assembly code to read two numbers (x and y). If both x and y are positive, write 1 to the console, else write -1 to the console. Submit as Q1.s

Question 2 (7 points)

Write an assembly code that reads an integer *n* and display the value $\sum_{k=n}^{2n} k$. That is the sum of *n* numbers starting with the number you read. If the number you read is 4, the calculate and display 4+5+6+7. Submit as Q2.s

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 16 bits of the number you read).
For example if you read 6, that is 0000000000000000 0000000000000110



You should display
0110000000000000 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_1 Q?.s where "?" refers to 1, 2, and 3