Name: **Id#**

COE 301/ICS 233, Term 172

Computer Architecture & Assembly Language
Quiz# 4

Date: Sunday, March 11, 2018

Q.1. Implement the following two procedures using MIPS assembly language. Use MIPS programing convention in saving registers.

(a) A procedure, RSum, that computes the sum of a given row. Assume that the procedure receives as parameters the address of the array in register $a0, the number of columns in register $a1, and the index of the row to be summed in register $a2. The procedure should return the sum of the row in register $v0.

(b) A procedure, ArrayRowSum, that displays the sums of all rows in the array based on using RSum procedure. Assume that the procedure receives as parameters the address of the array in register $a0, the number of rows in register $a1, and the number of columns in register $a2. Each row sum should be printed in a new line. To print an integer in register $a0, use syscall with $v0=1. To print a character in $a0, use syscall with $v0=11.