# Assignment 1

CS2340.006

Read and add numbers

Write a program that does the following:

1. Display a prompt to the user: “Enter an integer: “
2. Wait for the user to enter an integer.
3. If the number entered is zero
4. Print “The sum is: “ followed by the sum of all of the integers entered.
5. Print “The number of integers entered was: “ followed by the number. This number should not include the final zero.
6. Exit the program
7. Add the number to a running sum.
8. Increment the count of integers.
9. Loop back to step 1.

Write this program in MIPS assembly language using the MARS simulator.

For example, if the user enters 4, then 6, then 0, the program would print the following 2 lines:

The sum is 10

The number of integers entered was 2

Assume that there will be no invalid input. Your program will crash if you enter non-integers.

**To hand in through eLearning:** A ZIp file named CS2340-Asg1-<netID>.zip containing your program, named CS2340-asg1.asm and possibly SysCallas.asm. Replace <netid> with your netID. For example, if I were to hand it in, the name would be CS2340-Asg1-jxc064000.zip.

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| Grading Criteria | |
| Comments and variable names | 15 |
| Correctly outputs the sum and count | 55 |
| Files properly named | 5 |
| Does not crash for valid input | 25 |
| Total | 100 |

Additional grading criteria:

Your program is not named properly or does not have .asm as the file extension: -5

Your program does not have your name, NetID, and other header information: -5 to -15

Does not handle negative numbers: -10