Notes:

- The main purpose of this week is to get familiar with MARS MIPS simulator tool and arithmetic assembly instructions in the MIPS instruction set.

- **Students are NOT requested to submit your answers for this week.**

- To download the MARS MIPS simulator, the link from developers (https://goo.gl/497FVV) can be used. Besides, the additional download link (https://goo.gl/ECR2k6) can be used as an alternative.

- The MARS MIPS simulator requires JDK which is downloadable from Oracle website to execute.

- To get a simple MARS MIPS tutorial, please check out this link (https://goo.gl/CUzFTi) and this link (https://goo.gl/8m6Tzi).

- Please note that the register $zero can be described as $0.

Please refer to Section syscall instruction for these exercises.

Question 1. Write a simple MIPS program that can execute these steps:

1. Print a sentence to terminal to request an integer number from user;

2. Collect the number and increase it by 1;

3. Print the result to terminal.

Question 2. Write a small program that is able collect two integer numbers from users and print out the sum of the two numbers.

Question 3. Write a small program that allows users to input values for variables a, b, c, and d. The program then calculates the following expressions and prints the results to terminal.

$$f = (a + b) - (c - d - 2); \tag{1}$$
$$g = (a + b) * 3 - (c + d) * 2; \tag{2}$$

Question 4. Write a small program that allows users to input 5 different integer numbers. The program then prints those numbers in reverse. For example, users input 1, 2, 3, 4, 5; the program should print 5, 4, 3, 2, 1.

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