
Notes:

- The main purpose of this session is to get familiar with MARS MIPS simulator tool only
 - 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.
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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.

$$f = (a + b) - (c - d - 2); \quad (1)$$

$$g = (a + b) * 3 - (c + d) * 2; \quad (2)$$

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.

Question 5. Write a MIPS program that calculates and prints the result of the following equation to the terminal with the number of instructions as small as possible.

$$66000 + 30 + 30 + 30 + 30 + 30 + 30 + 30 + 30 + 30 + 30 - 6000 + 25 \quad (3)$$

Question 6. Write a MIPS program that receives values for a, b, c, d, and x variables from users and prints result of following equation:

$$f = a \times x^3 + b \times x^2 + c \times x + d \quad (4)$$

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