

MIPS Assembly Homework 03

CS 3810 – Computer Architecture

Instructions

Write a calculator program. Your program shall implement a function for add, subtract, multiply, and divide. Your program shall implement a recursive factorial function. You are not allowed to use registers to pass arguments except for syscall. Use the stack to pass your arguments.

Your program should run as follows:

Equation: **1 + 1**

Answer: 2

Equation: **1 – 1**

Answer: 0

Equation: **2 * 4**

Answer: 8

Equation: **10 / 2**

Answer: 5

Equation: **5!**

Answer: 120

Make your output match exactly!

Grading rubric

Add: 20/100

Subtract: 20/100

Multiply: 20/100

Divide: 20/100

Factorial: 20/100

Notes

Use the information at <http://courses.missouristate.edu/kenvollmar/mars/Help/SyscallHelp.html> to complete this assignment.