



CSE341: Microprocessors
Department of Computer Science and Engineering

Assignment 01

Task 01

Swap two numbers using **ADD/SUB** instructions only.

Task 02

Consider these 4 variables, which are A, B, C and D. These variables are byte sized and non zero variables. Now perform the given mathematical operation with the help of these variables in the emu8086 emulator.

$$D = A - (A + C) + D$$

Task 03

Consider these 4 variables, which are W, X, Y and Z. These variables are byte sized and non zero variables. Now perform the given mathematical operation with the help of these variables in the emu8086 emulator.

$$X = (X / Y) * (Y * Z) / (Z * W)$$

Task 04

Perform the following arithmetic operation in the emu8086 emulator.:

$$(10 / 5) * (4 - 0) + (5 + 3 * 2) + (2 / 1)$$