



EE2003 – Computer Organization and Assembly Language (Sp'24)

Apr 2024

**Assignment:** 02, **Weight:** 3.0, **Due Date:** 2 Jun, **CLO:** 2

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**Name:** \_\_\_\_\_ **Roll No. P** \_\_\_\_ - \_\_\_\_\_

**Section:** BAI-4A

**Note:**

Plagiarism will be marked zero straight away to all parties involved.

**Subroutines:**

1. Make separate subroutines for add, subtract, multiply and divide and then perform all these operations between two numbers of your choice using these subroutines and passing them the numbers as parameters on the stack. Also, store the results for each of the operations in the variables shown in the starter code.

[org 0x0100]

operand1: dw 0

operand2: dw 0

sum\_result: dw 0

subtraction\_result: dw 0

multiplication\_result: dw 0

division\_result: dw 0

**//Your code goes here**

mov ax, 0x4c00

int 0x21



2. Perform recursion in assembly language using subroutines of your choice.

**Note: As the assignment is based on subroutines, make sure to pay attention to the syntax of your subroutines. Marks will be deducted for any syntax error or semantic error in your subroutines.**