**Lab Report 1**

**CS330**

**Sam Lazrak**

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**Objectives:**

You are to read in two integer numbers, A and B. You are to use those two integers to compute the following expression:answer=A\*B-(A+B)/(A-B). You should produce an error message should A-B be zero, as that will cause the division to fail.

I ended up having a lot of trouble with this.

Source code:

;Sam Lazrak

;26January2018

;Assignment 1

section .data

intA dq 0;

intB dq;

intAddition dq 0;

intSubstraction dq 0;

intMultiplication dq 0;

intDivision dq 0;

intAnswer dq 0;

input1 db "Enter value", 0

input2 db "Enter value", 0

answer db "Answer:", 0

error db "Error", 0

section .text

global\_start

main:

;multiplication

mov edx, [intA]

mov eax, [intB]

imul eax, edx

mov [intMultiplication], eax

;subtraction

mov edx, [intA]

mov eax, [intB]

sub edx, eax

mov [intSubstraction], eax

;addition

mov eax, [intA]

mov ebx, [intB]

add eax, ebx

mov [intAddition], eax

;division

cdq

mov eax, [intAdd]

mov ebx, [intSub]

idiv ebx

mov [intDivision], eax

;answer

mov eax, [intMultiplication]

sub eax, [intDivision]

mov [intAnswer, eax

;print

mov eax, 0

call printf

exit