

Spring 2021

CSCI 2450: HW2 (Programming Assignment) (10 points)

Problem 1 (5 points)

USE Microsoft Visual Studio on your own computer or CS remote server (webterminal.cs.uno.edu) and practice the example problems (addition with registers, addition with variables) shown in lecture slides of Chapter 3. To get points for this problem, you need to show proofs: screenshots of Visual Studio running on your computer with system time information (the exact time when you are performing this), debugging screens, and register windows for at least 2 examples. Produce at least 2 screenshots, one for each example. You may have additional screenshots.

Problem 2 (5 points):

Write an assembly program that evaluates the following expression using MOV, ADD/SUB, NEG, and INC/DEC instructions.

varA = (varA + varB) - (-varC + varD++),

where varA, varB, etc., are variables and ++ is the increment operator. Assign integer values to the variables. (Meaning, you may hardcode the inputs.) You do not need to print out the result. You may simply store the result in EAX. Debugging should reveal that the result is correctly stored in EAX. If you choose to display the result on screen, that is also fine (but again, not required).

Submission & Marking Guideline

- This is an individual assignment. Do not share your work with others.
- **Deadline**

March 11, 2021 Thursday 11:59pm

- **Submission**
- For problem 1: Prepare a document (preferably, MS Word or similar) with your screenshots and other related description. Name your file as follows –

Firstname_Lastname_HW2_Prob1

- For problem 2: your solution must be an assembly language file (.asm). Follow

this naming convention:

Firstname_Lastname_HW2_Prob2.asm

- Create a zip archive/file with the above two files and upload them on Moodle through the submission link. The name of your final zip file must be:

Firstname_Lastname_HW2

You may email me your work only if Moodle is not working. You may ask clarifications on this assignment by attending my virtual office hours or just ask in class. Good Luck!

DO NOT PROCRASTINATE. START EARLY.