

Homework 01 - Setup / Access MARIE

200 pts total

Part 1 - 100pts

1. Access the online MARIE simulators at <https://marie.js.org/>
2. Input your first assembly language program and run it (Program is 3 lines in this file - you just have to type it in).
3. Get output from the program. Submit a screen capture with the program after you have run it.
4. Download the command line assembler for MARIE and command line emulator from: <https://github.com/Univ-Wyo-Education/S20-2150/tree/master/Download> Verify that you can run the assembler with `asm --in pt1.mas --out pt1.hex` On a mac use iTerm2 for the terminal, on Windows bring up the power shell. If you are using Linux then whatever shell you like to use.

Turn in a screen capture of the website with your assembled code.

Turn in the .hex file, `pt1.hex` and the `pt1.mas` with your name in the comment on line 1.

Part 2 - 100pts

1. Compare the price of a Apple Mac Book Pro to a Dell XPS 15" with a similar configuration. Assuming that the Dell will last 4 years and the Mac will last 8 years which one is cheaper per year to own?
2. Turn in a 1 page list (in a text file) of what the features of each computer has and the total price.

Reading Assignment

Read the index of the book.

Overview the chapters. Note chapter 4 is on our "machine" MARIE.

Read Preface and Chapter 1.

Code

Program for Part 1 - step 2 – Call it `pt1.mas`: Use a text editor to create it in `vi` or `vim`. There are downloads for this on the PC - look for "portable vim". On Mac install MacVim. If you need a tutorial

on `vi` then send me an email or do a google search for `vi` tutorial.

```
    / This is a comment: put YOUR NAME in if you want to get a grade!  
    Load X  
    Output X  
    Halt  
X,    DEC          65
```

Note on other editors. Last semester I had people use Notepad, Notepad++ - some of them had broken code because it was in Unicode / or not in Unicode. If your editor is breaking your program and you are not using `vi` or `vim` then go and fix your editor.

Due

Feb 7 - Friday by midnight.

No late homework on this. There is very little creative component to this assignment.