# Lab 1: Introduction to VerySimpleCPU

In this lab, you will write a VerySimpleCPU assembly program that finds the maximum of the three numbers in addresses **100, 101, 102** and writes the result into address **110**.

## Steps:

1. Create a workspace for your labs
    a. Create a new folder and name it "EE321workspace"
    b. Download Lab1 folder from:

    https://www.dropbox.com/sh/5swyfukqpxmtinb/AADvGzlRLyuAyV1bryyqL8DLa?dl=0

2. Open and analyze the two C files with a text editor. (I suggest you download notepad++.)
3. Create "lab1.asm" file with a text editor then write the code that finds the max. of 3 numbers.
4. Open the command prompt (shift+right_click + open prompt or power-shell in the Part1 folder )
5. Type "VerySimpleCPU.exe lab1.asm r " then press ENTER (VerySimpleCPU.exe lab1.asm r > log.txt for saving debug data into file)
6. Type "exit" then press ENTER again
7. Open the log file and look at it. The ISS displays the affected memory locations before and after every instruction.
8. Look at "memoutd.txt". It displays the final memory contents. Look at location 110 and make sure it is the largest of *100, *101, and *102.
9. If your code does not work correctly, debug it by viewing the "log" file.