ASM Lab 1

Lab Section Meeting Day	*Lab Start Date*	*Lab Due Date*
Tuesday	8/29	9/5
Friday	9/1	9/8

1) Install a C compiler. instructions are given on the next page. (Nothing needs to be handed in for this, but your TA will confirm with you that everything is working)

2) Complete Problems 1-10 in chapter 1. This can be handwritten and scanned if you write neatly, or it can be typed.

3) Write a C program that does the following:
    a. Prompt the user to input a non-negative integer.
    b. Read the user input into a variable "count."
    c. Display "count" 5 times.
    - Test your program with the number 0 and 5. Submit your source code, along with your output from both test cases.
    - If you are not yet familiar with C, this is a useful resource: https://www.tutorialspoint.com/cprogramming/index.htm

4) Memorize the binary and hex equivalents of the decimal numbers 0-15. (Nothing needs to be handed in for this)

You will submit your labs electronically via email until your TA has Brightspace access, here is the email address: mcdonala12@newpaltz.edu You will be notified when we switch to Brightspace.

Instructions on installing gcc C/C++ compiler:

Mac

Invoke Terminal program. Enter gcc. Follow prompts

Linux, Raspbian

gcc already installed

Windows

1) go to codeblocks.org

2) download and install either
   ...mingw-64bit-setup.exe (64-bit computer)
   ...mingw-32bit-setup.exe (32-bit computer)

To invoke the gcc compiler from the command line (i.e., the Command Prompt program), do the following.

1) Using File Explorer find the codeblocks directory then go to subdirectory
   mingw

2) Then go to subdirectory
   bin

3) Copy the complete path name of the bin folder in the file name window. To do this, right click in file name window, copy address, exit File Explorer. Then click on:
   Control Panel
   System and Security
   System
   Advanced system settings
   Environment Variables
   Path, Edit
   New

4) In the box, right click and paste (which pastes the complete path name of the codeblocks bin folder).