CMSC 113 – Fall 2020
Lab#0 (Week 0) – To be completed before start of classes in Week 1

Objective: The objective of this lab is to set up all the software tools we will be using in this class on **your own computer**. We will begin by doing all labs in-person in the CS Labs where all the required software is already installed. Setting up all the tools on your own computers will enable you to do all the labs and assignments on your own computers.

We will be using several tools to enable us to do our work in this course:

1. **Dropbox:** This software provides convenient sharing of documents with others. You will create a folder that will be shared with your professor. This is where you will submit your programming assignments.
2. **Piazza:** Piazza is an app (also accessible through a web browser). It will be our gathering place to ask, answer, and discuss any matters related to this class with other students, TAs, and professors.
3. **Microsoft Visual Studio Code (VS Code):** This is an editor for writing all your programs.
4. **Java Development Kit (JDK) & Git-Bash:** We will be using the OpenJDK Version 11 to write and run Java programs. Git-Bash is an app for Windows computers that provides a command-line shell that provides several basic Linux Commands you will be using while working on your programs.

All of these tools are free. In this lab, you will acquire, install, and set up these tools **on your own computer**. Let us begin.

1. **Dropbox**
   a. Account: Create a dropbox account (if you do not already have one). To create a new account, point your web browser to dropbox.com and sign-in or create a new account. Please, use your college e-mail address if you are creating a new account.

   b. Get the app: You can use dropbox through a web browser. However, to make your workflow easier we recommend that you install the dropbox app on the computer you will be doing your class work. Again, you can do this from the dropbox website. After installation, start it up, and log in.

2. **Microsoft Visual Studio Code (VS Code)**
   To install VS Code, go to code.visualstudio.com, download and install the application. Select all defaults the installer offers. You may also want to select the option to "install a desktop icon" and the "Open with VS Code" option. That's it for now.

3. **Installing OpenJDK & Git-Bash**
   The book's website (https://introcs.cs.princeton.edu/java/home/) also provides a nice way to easily install Java and Git-Bash on your computer. Follow the directions below:

> **Windows:** Go to the website: https://lift.cs.princeton.edu/java/windows/
> **MacOs:** Go to the website: https://lift.cs.princeton.edu/java/mac/

Once the installation is complete, the installer may ask you to restart your computer. Make sure you save your work, if there is anything you were doing that needs to be saved. And restart the computer when prompted.

4. **Piazza**
   In Week 0, you will receive an invitation from your professor to join the class discussion group on piazza.com. When you receive the invitation, follow the directions and sign on.

Do this prior to start of Week 1:

1. **Dropbox:** Send an e-mail to your professor with your dropbox username and e-mail. The professor will invite you to share a folder (you will receive an e-mail invitation) for your work.

2. **Piazza:** Say "Hello" on Piazza: To make sure you are in the proper gathering place on PIazza, go to Piazza, find the Class (CMSC113Fall2020), and post a "Hello World" message to the class with the following information:

   - Introduce yourself (name, class, major/minor)
   - What kind of computer you own (e.g. Dell laptop, Apple MacBook, none, etc.)
   - Your date of birth (without the year!). For example, July 4.
   - A short sentence or two about your expectations from this class.

That's it. You are done with Lab 0. If there are any issues with anything in this lab, please contact your professor.