**CIS163 Lab 6**

**Coding Bat lab:**

**(Recursion)**

**Preparation:**

Attended class on recursion.

**Objectives** (after completing the lab you will be able to do:)

* Learn to write recursive programs
* Create back-trace graphs for your recursive program
* Use the Java Eclipse Debugger to help with your program.

**This lab is important because of the following:**

1. **The projects do not have recursion as part of their requirements**
2. **There are recursive problems on the mid-term and final exams.**
3. **This lab will be the only homework provided for you to work on recursion.**

**So, lets practice.** 😊

**Activities:**

1. Open a web browser and go to: <http://codingbat.com/java/Recursion-1>
2. Pick the following three recursive problems and solve each one:
   * Factorial
   * CountX
   * EndX
3. Pick 15 different recursive problems that you want to do and solve each one
4. Get check off by the instructor
5. Open a web browser and go to: <http://codingbat.com/java/Recursion-2>
6. Pick 2 different recursive problems that you want to do and solve each one
7. Get check off by the instructor