Assignment 4

Full Score: 70 points

(**Due by the lab on Monday, 2/13/2012**)

Your name:	Score:

Coding preparations:

1. Create a subdirectory "Assignment04" under the "H:\CSC201J".
2. Create a subdirectory under directory "CSC201J\Assignment04" for each of the programming projects.
    - You must ***use meaningful names for the subdirectories***, for example, "lab01_Shapes" and "A04_1_table" for the first two of the following projects; "A04_2_counting" for the last project.
        i. Do ***not*** include whitespaces in the (sub)directory names.
        ii. Use *underscore* and *capitalize* first letter of each word.
    - You must work on ***each project in its own subdirectory***.
3. Usually, you cannot complete these coding projects in the lab. That means you will need to save what you have done in the lab in ***some format*** and in ***somewhere*** and to continue at your home.
    - Compress the subfolder "Assignment04" (by default, including all its contents) into a zip file
    - Send this compressed zip file to you via email or save it on a flash drive or your online storage where you can have access remotely.
    - **If you don't know how to compress/extract files, please ask the instructor for assistance!!**

How to submit?

- Go to each of the project subdirectory and ***delete*** all class files (whose names end with "class").
- Compress directory (and all its contests) "Assignment02) into a ***single zip file***.
- Submit/upload this zip file at course website at Canvas (go through https://salemstate.instructure.com/).

Complete the following Chapter 2 programming projects:

1. (*Table of Squares and Cubes*) Using only the programming techniques you learned in Chapter 2 of the textbook, write an application that calculates the squares and cubes of the numbers from 0 to 8 and prints the resulting values in table format, as shown below (you need to use format specifiers, such as "**%d**", "**%s**", "**\n**", and/or "**\t**" to format the output):

```
number  square  cube
0       0       0
1       1       1
2       4       8
3       9       27
4       16      64
5       25      125
6       36      216
7       49      343
8       64      512
```

2. (*Negative, Positive and Zero Values*) Write a program that inputs five numbers and determines and prints the number of negative numbers input, the number of positive numbers input and the number of zeros input.