Lab 3

Turn In:

1. Code Assignment – Exercise #1 Due in class on Thursday, September ??, 2012
    a) For each exercise, a hardcopy package must be generated to include the following items:
        - Cover Sheet (see the sample copy include in lecture note)
        - Exercise/problem statement
        - Copy of your source file (C++ program named as **`cis25Fall2012YourNameLab3Ex1`**)
        - Copy of output (copy and paste from output screen as possible)
    b) Submitting one hard copy package for each exercise; and
    c) Emailing each document as follows,
        - One message for each exercise.
        - Attaching the source file that was created in part a).
        - The SUBJECT line of each message should have one of the following lines:

          `CIS 25 Fall 2012 Your Name : Lab 3 – Exercise #1`

          Or,

          `cis25Fall2012YourNameLab3Ex1.cpp`

2. Q.E.D.

1. Code Assignment

Exercise 1 – Due Thursday, September ??, 2012

1. Write a C++ program that will display the following information on screen.

```
Class Information --
  CIS 25 – C++ Programming
  Laney College

Assignment Information --
  Assignment Number:  Lab 03 – Exercise #1
  Written by:         Your Name
  Due Date:           Due Date
```

2. Update your Lab #2 so that your menu will have one additional option. The updated menu will have the following functions (options):
   a. A function named as `analyzeIntegerSeriesYourName()` will
      - Ask the user for a series of several integers, and
      - Search to get the largest and smallest digits for these integers, and
      - Print out the required output as shown below.
   b. A function named as `analyzeIntegerYourName()`, which is from your previous work.

   In your program, `main()` will call the menu to produce output such as below.

```
*********************************************
*                    MENU                   *
* 1. Calling analyzeIntegerYourName()       *
* 2. Calling analyzeIntegerSeriesYourName() *
* 3. Quit                                   *
*********************************************

Select an option ( 1 or 2 ): 4

WRONG OPTION!


*********************************************
*                    MENU                   *
* 1. Calling analyzeIntegerYourName()       *
* 2. Calling analyzeIntegerSeriesYourName() *
* 3. Quit                                   *
*********************************************

Select an option ( 1 or 2 ): -1

WRONG OPTION!


*********************************************
*                    MENU                   *
* 1. Calling analyzeIntegerYourName()       *
* 2. Calling analyzeIntegerSeriesYourName() *
* 3. Quit                                   *
*********************************************
```

```
Select an option ( 1 or 2 ): 1

  Enter an integer: 12735

  12735 is an odd and non-negative number.

  The least significant digit: 5
  The most significant digit: 1

  The smallest digit: 1
  The largest digit: 7

  The sum of all digit(s): 18


*********************************************
*                    MENU                   *
* 1. Calling analyzeIntegerYourName()       *
* 2. Calling analyzeIntegerSeriesYourName() *
* 3. Quit                                   *
*********************************************

Select an option ( 1 or 2 ): 2
  How many integers? 2

   Enter integer #1: 12795
   Enter integer #2: -2794

   The smallest digit: 1
     Digit 1 can be found in integer number(s): 1

   The largest digit: 9
      Digit 9 can be found in integer number(s): 1, 2


*********************************************
*                    MENU                   *
* 1. Calling analyzeIntegerYourName()       *
* 2. Calling analyzeIntegerSeriesYourName() *
* 3. Quit                                   *
*********************************************

Select an option ( 1 or 2 ): 2
  How many integers? 3

   Enter integer #1: 12795
   Enter integer #2: -20784
   Enter integer #3: -27904

   The smallest digit: 0
     Digit 0 can be found in integer number(s): 2, 3

   The largest digit: 9
      Digit 9 can be found in integer number(s): 1, 3


*********************************************
*                    MENU                   *
```

```
* 1. Calling analyzeIntegerYourName()       *
* 2. Calling analyzeIntegerSeriesYourName() *
* 3. Quit                                   *
*********************************************

Select an option ( 1 or 2 ): 3

  Have Fun ...
```

3. Save the program as `cis25Fall2012YourNameLab3Ex1.cpp`