

Lab 2

Turn In:

1. Code Assignment – Exercise #1 Due in class on Thursday, September 13, 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 **cis25Fall12012YourNameLab2Ex1**)
 - 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 2 - Exercise #1

Or,

`cis25Fall12012YourNameLab2Ex1.cpp`

3. Q.E.D.

1. Code Assignment

Exercise 1 – Due Thursday, September 13, 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 02 - Exercise #1
Written by:         Your Name
Due Date:          Due Date

```

2. Modify your Lab #1 so that your program will then allow the user to repeatedly ask for integer values and do the same assessments. The output should be as follows,
 - a. Write a function named as `analyzeIntegerYourName()` that will then ask the user to enter an integer and print out the evenness or oddness and positiveness or negativeness of this integer.
 - b. In your program, `main()` will have the setup that will call `analyzeIntegerYourName()` function to produce the required output – A menu function is highly recommended.
 - c. A sample output is given below.

```

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

```

Select an option (1 or 2): **3**

WRONG OPTION!

```

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

```

Select an option (1 or 2): **-1**

WRONG OPTION!

```

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

Select an option (1 or 2): 1

Enter an integer: -2794

-2794 is an even and negative number.

The least significant digit: 4

The most significant digit: 2

The smallest digit: 2

The largest digit: 9

The sum of all digit(s): 22

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

Select an option (1 or 2): 1

Enter an integer: -27904

-27904 is an even and negative number.

The least significant digit: 4

The most significant digit: 2

The smallest digit: 0

The largest digit: 9

The sum of all digit(s): 22

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

Select an option (1 or 2): 1

Enter an integer: 0

0 is an even number.

The least significant digit: 0

The most significant digit: 0

The smallest digit: 0

The largest digit: 0

The sum of all digit(s): 0

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

Select an option (1 or 2): 2

Have Fun ...

3. Save the program as `cis25Fall2012YourNameLab2Ex1.cpp`