

Lab 2

Turn In:

1. Exercise #1 – Due in class on Thursday, February 11, 2016
 - a) For each exercise, a hardcopy package must be generated to include the following items:
 - Cover Sheet (use the sample copy include in class/lecture note)
 - Exercise/problem statement
 - Copy of your source file (C++ program named as **cis25Spring2016YournameLab2Ex1.cpp**)
 - Copy of output (copy and paste to the end of your program as COMMENT block)
 - Copy of YOUR COMMENTS (as a separate comment block) after YOUR PROGRAM OUTPUT
 - b) Submitting in class one hard copy for each document
 - 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 the message should have one of the following lines:

CIS 25 Spring 2016 Your Name : Lab 2 – Exercise #1

Or,

cis25Spring2016YourNameLab2Ex1.cpp

3. Q.E.D.

1. Coding Assignment

Exercise #1

1. Write a program to first display the exercise information as below,

```
CIS 25 - C++ Programming
Laney College
Your Name
```

```
Assignment Information --
```

```
Assignment Number:  Lab 02,
                  Coding Assignment -- Exercise #1
Written by:        Your Name
Submitted Date:    Due Date
```

2. Then, the program will generate a menu to provide the output shown below

```
*****
*                               *
*           MENU                 *
* (1) Calling getMostOccurredDigit() *
* (2) Calling getLeastOccurredDigit() *
* (3) Quit                       *
*****
Enter your option (1, 2, or 3): 4
```

```
WRONG OPTION!
```

```
*****
*                               *
*           MENU                 *
* (1) Calling getMostOccurredDigit() *
* (2) Calling getLeastOccurredDigit() *
* (3) Quit                       *
*****
Enter your option (1, 2, or 3): 1
```

```
Enter an integer: 123444034
```

```
Calling getMostOccurredDigit() --
```

```
The digit occurred most in 123444034 is 4.
```

```
*****
*                               *
*           MENU                 *
* (1) Calling getMostOccurredDigit() *
* (2) Calling getLeastOccurredDigit() *
* (3) Quit                       *
*****
Enter your option (1, 2, or 3): 1
```

Enter an integer: **-390345505**

Calling getMostOccurredDigit() --

The digit occurred most in -390345505 is 5.

```
*****
*                               *
*             MENU              *
* (1) Calling getMostOccurredDigit() *
* (2) Calling getLeastOccurredDigit() *
* (3) Quit                      *
*****
```

Enter your option (1, 2, or 3): **1**

Enter an integer: **39034550**

Calling getMostOccurredDigit() --

The digit occurred most in 39034550 is 0.

```
*****
*                               *
*             MENU              *
* (1) Calling getMostOccurredDigit() *
* (2) Calling getLeastOccurredDigit() *
* (3) Quit                      *
*****
```

Enter your option (1, 2, or 3): **2**

Enter an integer: **-45588524**

Calling getLeastOccurredDigit() --

A LOD in -45588524 is 2.

```
*****
*                               *
*             MENU              *
* (1) Calling getMostOccurredDigit() *
* (2) Calling getLeastOccurredDigit() *
* (3) Quit                      *
*****
```

Enter your option (1, 2, or 3): **2**

Enter an integer: **42351654**

Calling getLeastOccurredDigit() --

A LOD in 42351654 is 1.

```
*****
*                               *
*             MENU              *
* (1) Calling getMostOccurredDigit() *
```

```
* (2) Calling getLeastOccurredDigit() *
* (3) Quit                               *
*****
```

Enter your option (1, 2, or 3): **2**

Enter an integer: **-555**

Calling getLeastOccurredtDigit() --

A LOD in -555 is 5.

```
*****
*                               *
*             MENU              *
* (1) Calling getMostOccurredDigit() *
* (2) Calling getLeastOccurredDigit() *
* (3) Quit                       *
*****
```

Enter your option (1, 2, or 3): **3**

Working Good!

Only `cout` and `cin` (with their built-in and supportive manipulators) are allowed to be used.

Note also that **no global variables and data are allowed**. All functions (as if you need them) must be written and no library functions are allowed.

3. Name your program as `cis25Spring2016YourNameLab2Ex1.cpp`.
4. Again, in your program, no GLOBAL DATA are allowed and you must write all functions that you need to have/use.