Lab 1

Turn In:

1. Coding Assignment : Exercise #1 – **Due Thursday, January 31, 2013**
   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 program (named as **cis27Spring2013YourNameLab1Ex1)**
      - Copy of output (copy and paste from output screen as possible)

   b) Submitting in class one hard copy package for each exercise; and
   c) Emailing your work as follows,
      - One message for each exercise.
      - Attaching the source file (program) that was created in part (a).
      - The SUBJECT line of the message should have one of the following lines:
        CIS 27 Spring 2013 Your Name : Lab 1 – Exercise #1
        Or,
        cis27Spring2013YourNameLab1Ex1

2. Q.E.D.

****

1. Coding Assignment

Exercise 1 – Functions

(1) Write a C function (from here on, every thing must be written in C) that will receive an integer and then return the number of its digit(s). This function should be named as `getNumDigitYourName()`.

(2) Write a C program that would first run and display part of output as follows,

```
CIS 27 - Data Structures
Laney College
Your Name
Spring 2013

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

You need to replace "**Your Name**" and "**YourName**" with your real name and "**Due Date**" with the specified due date.

The above result should come from a call to a function named as `displayClassInfoYourName()`, where `YourName` must be replaced by your first name and your last name.

(3) The program will then continue with the following menu and sample output below.

```
**********************************
*              MENU              *
* 1) Calling getNumDigitYourName() *
* 2) Quit                        *
**********************************
Enter your option (1 or 2): 4

    WRONG OPTION!


**********************************
*              MENU              *
* 1) Calling getNumDigitYourName() *
* 2) Quit                        *
**********************************
Enter your option (1 or 2): 1

  Enter the integer: 3287401
  Calling getNumDigitYourName() –
    3287401 has 7 digits


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

```
* 1) Calling getNumDigitYourName() *
* 2) Quit                          *
***********************************
Enter your option (1 or 2): 1

  Enter the integer: -12345
  Calling getNumDigitYourName() –
    -12345 has 5 digits


***********************************
*              MENU               *
* 1) Calling getNumDigitYourName() *
* 2) Quit                          *
***********************************
Enter your option (1 or 2): -2

    WRONG OPTION!


***********************************
*              MENU               *
* 1) Calling getNumDigitYourName() *
* 2) Quit                          *
***********************************
Enter your option (1 or 2): 2

    Have fun yet!
```

The above output should be copied and attached in a comment block at the end of your code/program.

(4) Save the program as `cis27Spring2013YourNameLab1Ex1.c`.