Homework #3

Turn In:

1. Exercise #1 – Due on **Monday, July 6, 2020 at 11:00pm**
    a) For each exercise, a package must be generated to include the following items:
        - Copy of your source file (C program)—your source file MUST BE NAMED as **`cis6Summer2020YourNameHw3Ex1.c`**
        - Copy of output (copy and paste to the end of your program as **`PROGRAM_OUTPUT`** comment block)
        - Copy of **`Logic_Code_Output_COMMENTS`** (as a separate comment block) after the PROGRAM_OUTPUT.

    b) Emailing each package as follows,
        - One email message for each exercise.
        - The SUBJECT line of the message should have the following line:

`cis6Summer2020YourNameHw3Ex1.c`

        - Attaching the source file that was created in part a).

3. Q.E.D.

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1. Coding Assignment

Exercise 1 – Due Monday, July 6, 2020

(1) Write a C program with calls to functions to produce the output given below.

(2) The program should display the output to screen as

```
CIS 6 – Introduction to C Programming
Laney College
YourName

Assignment Information --
  Assignment Number:  Homework 3,
                      Coding Assignment -- Exercise #1
  Written by:         YourName
  Submitted Date:     Due Date
```

You need to replace "**`Your Name`**" 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 initial. For examples, if your name is **`John Smith`** then `YourName` should be `JohnS` throughout all of your work/code as mentioned.

(3) The program will then continue to call other functions and display the results as follows,

```
// --------------- RUN #1 ---------------
// OUTPUT – Sample Run #1
CIS 6 – Introduction to C Programming
Laney College
YourName

Assignment Information --
  Assignment Number:  Homework 3,
                      Coding Assignment -- Exercise #1
  Written by:         YourName
  Submitted Date:     Due Date

Calling extractDigit1YourName()
  Enter a floating-point: 12385.456

  12385.456000 is a positive value!

  The integral portion of 12385.456000 is 12385!

After the function extractDigit1YourName() finished and returned:
  1-digit : 5

Calling extractDigit10YourName()
  Enter a floating-point: 12385.456

  12385.456000 is a positive value!

  The integral portion of 12385.456000 is 12385!

After the function extractDigit10YourName() finished and returned:
```

```
  10-digit : 8

// --------------- RUN #2 ---------------
// OUTPUT – Sample Run #2
CIS 6 – Introduction to C Programming
Laney College
YourName

Assignment Information --
  Assignment Number:  Homework 3,
                      Coding Assignment -- Exercise #1
  Written by:         YourName
  Submitted Date:     Due Date

Calling extractDigit1YourName()
  Enter a floating-point: -456.12385

  -456.123850 is a non-positive value!

  The integral portion of -456.123850 is -456!

After the function extractDigit1YourName() finished and returned:
  1-digit : 6

Calling extractDigit10YourName()
  Enter a floating-point: -456.12385

  -456.123850 is a non-positive value!

  The integral portion of -456.123850 is -456!

After the function extractDigit10YourName() finished and returned:
  10-digit : 5

// --------------- RUN #3 ---------------
// OUTPUT – Sample Run #3
CIS 6 – Introduction to C Programming
Laney College
YourName

Assignment Information --
  Assignment Number:  Homework 3,
                      Coding Assignment -- Exercise #1
  Written by:         YourName
  Submitted Date:     Due Date

Calling extractDigit1YourName()
  Enter a floating-point: -1230.456

  -1230.456000 is a non-positive value!

  The integral portion of -1230.456000 is -1230!

After the function extractDigit1YourName() finished and returned:
  1-digit :0

Calling extractDigit10YourName()
  Enter a floating-point: -1230.456
```

```
  -1230.456000 is a non-positive value!

  The integral portion of -1230.456000 is -1230!

After the function extractDigit10YourName() finished and returned:
  10-digit : 3

// --------------- RUN #4 ---------------
// OUTPUT – Sample Run #4
CIS 6 – Introduction to C Programming
Laney College
YourName

Assignment Information --
  Assignment Number:  Homework 3,
                      Coding Assignment -- Exercise #1
  Written by:         YourName
  Submitted Date:     Due Date

Calling extractDigit1YourName()
  Enter a floating-point: -0.456

  -0.456000 is a non-positive value!

  The integral portion of -0.456000 is 0!

After the function extractDigit1YourName() finished and returned:
  1-digit :0

Calling extractDigit10YourName()
  Enter a floating-point: -0.456

  -0.456000 is a non-positive value!

  The integral portion of -0.456000 is 0!

After the function extractDigit10YourName() finished and returned:
  10-digit : 0
```

Your program should have and use the following functions,

displayClassInfoYourName()

extractDigit1YourName()

extractDigit10YourName()

where YourName must be replaced by your first name and your last name initial. For examples, if your name is **John Smith** then YourName should be JohnS throughout all of your work/code as mentioned.

You must run your program four (4) times to produce the output as shown.

(4) Save the program as **cis6Summer2020YourNameHw3Ex1.c**; and

(5) The above output should be copied and added to the end of the code in the OUTPUT comment block.