

Lab Program 8

For this and all future labs, I strongly encourage you to begin your programs with a comment header similar to the following:

```
/*  
Programmer: First & Last Name  
Class: CSCE 1030 Lab:  
Date: Today's Date  
Assignment: Lab 8  
cspXX.csci.unt.edu  
*/
```

You are welcome to include more information if you like.

This week's assignment we will continue working with control structures, but specifically the **switch statement** and a **do-while** or **while** loop. In your switch statement, please use **enumerated types** as the cases. Format the output to have **two digits after the decimal** point, and follow the detailed program explanation. Name your file accordingly: **LastnameProg8.c**.

The program should:

1. Prompt the user with instructions and ask for an operation code (1 – Addition, 2 – Subtraction, 3 – Multiplication, 4 – Division, 99 - Exit)
2. Next prompt the user for two values.
3. If the operation code was valid, complete the desired operation on the user provided values, and print the result. Otherwise, prompt the user of invalid operational code.
4. Repeat this process until user decides to exit program.

Example:

```
*****
```

```
Please enter an desired operation followed by two values.
```

```
1 = Addition
```

```
2 = Subtraction
```

```
3 = Multiplication
```

```
4 = Division
```

```
99 = Exit
```

5 12.1 3.4

I am sorry, invalid operator.

Please enter an desired operation followed by two values.

1 = Addition

2 = Subtraction

3 = Multiplication

4 = Division

99 = Exit

99

Good, bye

OR

Please enter an desired operation followed by two values.

1 = Addition

2 = Subtraction

3 = Multiplication

4 = Division

99 = Exit

3 12.1 3.4

Result is: 41.14

I am sorry, invalid operator.

Please enter an desired operation followed by two values.

1 = Addition

2 = Subtraction

3 = Multiplication

4 = Division

99 = Exit

99

Good, bye