CPSC1012 – Modular Programming Worksheet

Overview

This worksheet will demonstrate your ability to create modularized programs.

Instructions

Complete the following on your own. If would like to work with a partner, that is fine as both of you are responsible for your own work. Remember this is for learning, not a challenge simply to be completed.

Purpose

The purpose of this worksheet is to ensure that you are familiar with how to create modularized programs.

Questions

NOTE: Remember to use parameters and NOT global variables for your solutions. This may require you to rewrite the solutions using the appropriate pseudo code. Both problems will use the `GetSafeInt(string prompt)` *method.*

1. Create a user-defined function that will determine and return the absolute value of a number.

2. Code the revised menu-driven program that inputs two numbers and, at the user's option, finds their sum, difference, product, or quotient.

Sample Program Output

```
C:\_DMIT_New\_CPSC1012\Lessons\06_Modules\UnderstandingMethodsWorksheet\bin\Debug\UnderstandingMethodsWorksheet.exe

Enter 1st number: 23
Enter 2nd number: 42
Choose from one of the following options:
        S - Sum of the two numbers
        D - Difference of the two numbers
        A - Absolute difference of the two numbers
        P - Product of the two numbers
        Q - Division of the two numbers
        X - Exit program
Option: d
23 - 42 = -19
Choose from one of the following options:
        S - Sum of the two numbers
        D - Difference of the two numbers
        A - Absolute difference of the two numbers
        P - Product of the two numbers
        Q - Division of the two numbers
        X - Exit program
Option: a
|23 - 42| = 19
Choose from one of the following options:
        S - Sum of the two numbers
        D - Difference of the two numbers
        A - Absolute difference of the two numbers
        P - Product of the two numbers
        Q - Division of the two numbers
        X - Exit program
Option: x
Goodbye
```