CS 170 – Homework 06 Assignment
Iteration – Loops

Introduction
The purpose of this homework is to introduce you to the fundamental concepts of loops using the While, Do-While, and For statement.

Notes
- For all programs the header from the template should be used.
- Attach a Word file including the "Pseudocode" of the algorithm, as well as screen shots for running the programs.
- Add reasonable comments through all the program.
- All lab and homework classes should be grouped in one project.
- Make sure to follow the naming convention for the project name.

I. EvenOddSum
- Create a class named "EvenOddSum_While" that uses while loops to perform the following steps:
  1. Prompt the user to input two positive integers: firstNum and secondNum.
     - You need to make sure that firstNum must be smaller than secondNum.
  2. Output all the even numbers between firstNum and secondNum inclusive.
  3. Output the sum of all the even numbers between firstNum and secondNum inclusive.
  4. Output all the odd numbers between firstNum and secondNum inclusive.
  5. Output the sum of all the odd numbers between firstNum and secondNum inclusive.

Sample Output:

II. EvenOddSum_Do
- Create a class named EvenOddSum_Do, that is a re-write of the previous program, but using a Do-while loop.

III. EvenOddSum_For
- Create a class named EvenOddSum_For, is a re-write of the previous program, but using a for loop.

IV. ReverseDigits
- Create a class named "ReverseDigits" that prompts the user to input a positive integer and then outputs the number reversed and the sum of the digits.
  - For example, if the user enters the number 123456, then your program should output 654321 and the sum as 21.

Sample Output: