Queensland University of Technology (QUT)
IFN556 Practical Exercise Questions – Advanced Methods

1. Create a program named **Reverse3** whose Main() method declares three integers named firstInt, middleInt and lastInt. Assign values to the variables, display them, and then pass them to a method that accepts them as **reference** variables. The method places the first value in the lastInt, and places the last value in the firstInt variable. In the Main() method, display the three variables again demonstrating that their positions have been reversed.

2. Create a program named **IntegerFacts** whose Main() method declares an array of 10 integers. Call a method to interactively fill the array with any number of values up to 10 or until sentinel value is entered. If an entry is not an integer, re-prompt the user. Call a second method that accepts **out** parameters for the highest value in the array, lowest value in the array, sum of the values in the array, and the arithmetic average. In the Main() method, display all the statistics.

3. Write a program named **InputMethodDemo2** that eliminates the repetitive code in the InputMethod() in the InputProgramDemo program in Figure 8.5 in the Lecture. Rewrite the program so the InputMethod() contains only two statements:
   one = DataEntry("first");
   two = DataEntry("second");

4. Write a program named **Averages** that includes a method that accepts any number of numeric parameters, displays them, and displays their average. Demonstrate that the program works correctly when passed one, two, or three numbers, or an array of numbers.

5. Write a method that accepts and displays two parameters: a string name of a movie and an integer running time in minutes. Provide a default value for the minutes so that if you call the method without an integer argument, minutes is set to 90. Write a console-based program with a Main() method that proves you can call the movie method with only a string argument as well as with a string and an integer.
