**FOP 2 - Lab 3**

**Part A**

Implement all the algorithms described in the lecture as separate methods, and then test them in the main method using various arrays (you can choose the name of the class).

**Part B**

1. Write a program called **DescendingSortingAlgorithms** in which you will write methods to implement the following:

* The bubble sort for an array of double values to sort the array in decreasing order (from largest to smallest);
* The selection sort for an array of double values to sort the array in decreasing order (from largest to smallest);

Test your methods by calling them in the main method.

1. Write a program called **NumericalLinearSeach** in which you will write methods to implement the following:

* Linear search for an array of integers.
* Linear search for an array of doubles.

Test your methods by calling them in the main method.

**Make sure that your code is indented and commented appropriately.**

**Save all your exercises, put them into a zip folder with your student number and submit it using the Moodle upload facility for lab 3 by Monday 2.00 pm.**