# Chapter 16 Programming Assignment

**Purpose:** To write an application using the list data structure that sorts objects in ascending order.

**Details:**

Using the Rectangle class you created in Chapter 11’s programming assignment, create a second class called RectangleComparator that implements the Comparator interface to compares two Rectangle objects according to area.

Create a third class called RectangleSortTest that contains the main method. The method should create a List containing five Rectangle objects, *not in order* by area. The method should print the list, displaying each rectangle’s area. Then sort the list, and print the list again showing the list has been sorted by area. This test class does not need to ask users for input, nor does it need to do any additional error checking.

Upload all source files to Blackboard.

**Note:** Ensure that your program is properly formatted and it follows all Java naming conventions.