**Lab: 4**

**Name: Ryan Shaw**

**Registration number: 1605008**

|  |
| --- |
| **Problem statement(s)**  **EX1:** Complete the code using the comments provided.  **EX2:** Remove the smallest number from the list.  **EX3:** In a new class, replace all negative numbers from a list with their absolute value. |

|  |
| --- |
| **Program description(s)**  **EX1:** Checked for the smallest number by comparing the smallest number so far with the current iterator value using ‘compareTo’.  **EX2:**  Removed the smallest number from the list using ‘smallest’ to get the index location and ‘remove’ to remove it.  **EX3:** Created ‘NegList’ class and ‘replaceNegList’ method that checked each number in the list ‘l’ for negative numbers. If a negative number was found I got its positive value by squaring and then square rooting the number. |

|  |
| --- |
| **Test description**  Reordered the way I added numbers to the list to make sure it was sorting correctly and tried empty lists where necessary. |
| **Known bugs**  - |
| **Possible improvements**  Sort strings alphabetically instead of lexicographically. |
| **Comments**  Was slightly confused about sorting strings until I realized they are not sorted alphabetically. |
| **Extra credit**  Added a method in ‘Lab4’ to get the largest item in the collection. |
| **References**  **-** |