**Lab:**

**Registration number:**

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| **Problem statement(s)**  The purpose of this lab was to explore the Java Collections Frame work and develop code using its components. With this we made use of generics in order to have a method which could operate with various different types of objects. In particular we used generics in order to create a **deleteSmallest** |

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| **Program description(s)**  In the first exercise smallest method is pre outlined for me and it is a method which is able to operate on various object types in order for comparison to be made to any object type in this case.  In exercise 2,  Plus lines added showing test of **deleteSmallest** method  Exercise 3,  Explain how replaceNegList |

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| **Test description**  ***Exercise 1:***  Test 1:  Result 1:  Test 2:  Result 2:  ***Exercise 2:***  Test 1:  Result 1:  Test 2:  Result 2:  ***Exercise 3:***  Test 1: Change order of words being added, does it still return smallest?  Result: PASS – hello is still returned with correct position for where it is in the list now.  Test 2: |
| **Known bugs** |
| **Possible improvements** |
| **Comments**  To improve this lab I would make it clear how the **compareTo** method actually makes comparisons. In particular with strings, many may think it is comparing to find the shortest length string. It in fact compares strings based on the Unicode value of the characters in the string. |
| **Extra credit**  For exercise 2, I created an additional vector. Added in order to test my method with other data types. |
| **References** |