**Lab: Lab 5**

**Registration number:**

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| **Problem statement(s)** |

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| **Program description(s)**  Exception handling in this case is not too appropriate as it would not be triggered with the method I used to find shared items. As I have used a nested for loop with an if conditional in order to find any matching Integers in the list, this can be seen in my code which adds matching items to the shared list. I tested if an error would be raised with a test set of two lists which would have no matching items. However as the below output shows, the exception handling part of my code has not been triggered. This may be because of the method I used to cycle through and see if there are matching items.  In order to catch lists where there are no matching Integers I would have used a better method of a simple *.size()* conditional in order to check if the sharedList is empty. If so an appropriate message would be shown.  **Please see to note in the possible improvements part of this report – I deffiently should have used the Java collections *.retainAll()* method** |

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| **Test description** |
| **Known bugs** |
| **Possible improvements**  For the second exercise I could have far improved it by using the java collections method of *.retainAll().* If I was redoing this exercise I would defiantly use this method instead of reinventing the wheel with my nested for loop approach. |
| **Comments** |
| **Extra credit**  Please see to possible improvements where I have discussed about the potential of making use of the java collections method of *.retainAll().* |
| **References** |