**CST8130 – Data Structures**

**Test Plan < Lab #1>**

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<add more tables if you have more features to test. Add more rows if you have more test cases> Cover all possible test cases with sufficient detail.

| **Test #** | **Description** | **Input** | **Expected output/result** | **Actual Output** | **Status (Pass/Fail)** |
| --- | --- | --- | --- | --- | --- |
| T1 | Test if the program handles MismatchType exception | a | Invalid input ... please choose option from 1-4 | Invalid input ... please choose option from 1-4 | pass |
|  | Test what happens if option is not in menu | 10 | Invalid input ... please choose option from 1-4 | Invalid input ... please choose option from 1-4  ! | pass |
|  | Test if program exits like user’s choice | 6 | Exiting… | Exiting… | pass |
|  | Test what happens if user add a very big number | 1000000000000000000000000000000000000 | Invalid input ... please choose option from 1-4 | Invalid input ... please choose option from 1-4 | pass |
|  | Input a value | 2 | Added to arraylist | Added to arraylist | pass |
|  | Input an invalid input | a | Invalid input ... please try again | Invalid input ... please try again | pass |
|  | Input a value | 1 | Added to arraylist  , sorted to the beginning of the array | Added to arraylist  , sorted to the beginning of the array | pass |
|  | Input a value | 4 | Added to arraylist | Added to arraylist | pass |
|  | Find the element which does not exist | 5 | Index of Integer is: not found | Index of Integer is: not found | pass |
|  | Find the index of element with value of 4 | 4 | Index of Integer is: 2 | Index of Integer is: 2 | pass |