***CST8130 – Lab 1 Test Plan***

**Menu Testing**

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| Condition | Input | Result |
| Menu input of 3 first | 3 (then values of 1 2 3 4 5 6 7 8 9 10) | User should be prompted to enter 10 numbers (default size of array is 10) |
| Menu input of 4 | 4 | Values should print 1 2 3 4 5 6 7 8 9 10 |
| Menu input of 5 | 5 | Average should display – 5.5 |
| Menu input of 2 | 2 (then enter 3 for size of new array) | Input accepted, back to menu |
| Menu input of 5 | 5 | Average 0.0 should display |
| Menu input of 4 | 4 | Values should print 0.0 0.0 0.0 |
| Menu input of 3 | 3 (then values -1 -2 -3) | User should be prompted to enter 3 numbers |
| Menu input of 5 | 5 | Average of -2.0 should be displayed |
| Menu input of 1 | 1 | Back to menu |
| Menu input of 4 | 4 | 10 values of 0.0 should display (default size is back) |
| Invalid menu input | A, -1, 0 | Invalid entry – back to menu |
| Menu input of 6 | 6 | Program ends |

**Menu 2 – input new size of array**

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| --- | --- | --- |
| Condition | Input | Result |
| Input value size | 3 | Array of that size should be created (test by checking menu 4 to display values) |
| Invalid size input | A, -1, 0 | Invalid entry message – prompted to reenter valid value |

**Menu 3 – input values**

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| --- | --- | --- |
| Condition | Input | Result |
| Input valid value | 3, -3, 0, 2.67 | Entry should be accepted |
| Input Invalid value | A,! | Invalid entry message – prompted to reenter valid value |