Test data for the code:

|  |  |  |
| --- | --- | --- |
| Input | Expected Output | Actual Output |
| q | exits the loop | exits the loop |
| i | Sub routine (loadArray) | Sub routine (loadArray) |
| a | Sub routine (sumArray) | Sub routine (sumArray) |
| p | Sub routine (printArray) | Sub routine (printArray) |
| h | Sub routine (maximu m) | Sub routine (maximu m) |
| l | Sub routine (minimum) | Sub routine (minimum) |
| (other) | Prints "that is not an option" | Prints "that is not an option" |

*Main routine* (Question as to what process the user would like to undertake).

*loadArray* (when asked to input a number into the array)

|  |  |  |
| --- | --- | --- |
| Input | Expected Output | Actual Output |
| q | Goes back into the main routine | Goes back into the main routine |
| Very small number (0.5) | Incorrect input | Incorrect input |
| Very large number (999) | Adds number to the array | "Your number has been successfully added" |
| Normal number (5) | Adds number to the array | "Your number has been successfully added" |
| Random character (f) | Incorrect input | Incorrect input |

sumArray (if this subroutine is performing correctly)

|  |  |  |
| --- | --- | --- |
| Input | Expected Output | Actual Output |
| 5 numbers in array (1,2,3,4,5) | The total sum of this array is 15  The total length of the array is 5 numbers long | The total sum of this array is 15  The total length of the array is 5 numbers long |
| Empty array | The total sum of this array is 0  The total length of the array is 0 number long | The total sum of this array is 0  The total length of the array is 0 number long |
| 1 number in the array (1) | The total sum of this array is 1  The total length of the array is1 number long | The total sum of this array is 0  The total length of the array is 0 number long |

PrintArray (if the subroutine is performing correctly)

|  |  |  |
| --- | --- | --- |
| Input | Expected Output | Actual Output |
| 5 numbers in array (1,2,3,4,5) | 1 2 3 4 5  The total length of the array is 5 numbers long | 1 2 3 4 5  The total length of the array is 5 numbers long |
| Empty array | blank  The total length of the array is 0 number long | blank  The total length of the array is 0 number long |
| 1 number in the array (1) | 1  The total length of the array is1 number long | 1  The total length of the array is1 number long |

Maximum

|  |  |
| --- | --- |
| Expected Output | Actual Output |
| This feature has not been implemented yet | This feature has not been implemented yet |

Minimum

|  |  |
| --- | --- |
| Expected Output | Actual Output |
| This feature has not been implemented yet | This feature has not been implemented yet |