User manual

1. open cmd

2. go the directory where the jar file is located

3. execute java -jar cs401.jar

4. there will be a message "Which file type do you want to choose:"

5. there will be 3 option: 1: String.txt , 2: Float.txt 3: Integer.txt

6. user will select the number to chose

7. it will print the sorted list under the line Sorted list:

8. it will print the "Total operation SelectionSort:" + number of comparison

it will print the "Total operation InsertionSort:" + number of comparison

it will print the "Total operation BubbleSort:" + number of comparison

it will print the "Total operation SelectionSort:" + number of comparison

it will print the "Total operation QuickSort:" + number of comparison

it will print the "Total operation HeapSort:" + number of comparison

it will print the "Total operation MergeSort:" + number of comparison

9. there will be a message “find the value that you want on the list :”

10. user can type the value

11. it will search the value:

it will print “search in BST :” true (if it exist) or false (if it does not exist)

it will print “search in Binary Search:” true (if it exist) or false (if it does not exist)

it will print “search in HashSearch:” true (if it exist) or false (if it does not exist)

it will print “search in LinearSearch:” true (if it exist) or false (if it does not exist)

OUTPUTS:

String.txt

A screenshot of a computer

Description automatically generated

A screen shot of a computer

Description automatically generated

Float.txt

A screenshot of a computer

Description automatically generated

A screen shot of a computer

Description automatically generated

Integer txt

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

String.txt

A black screen with white text

Description automatically generatedA black rectangular object with white text

Description automatically generated

Float.txt

A screenshot of a computer

Description automatically generatedA black screen with a white border

Description automatically generated

Integer.txt

A screenshot of a computer

Description automatically generatedA black rectangular object with white text

Description automatically generated