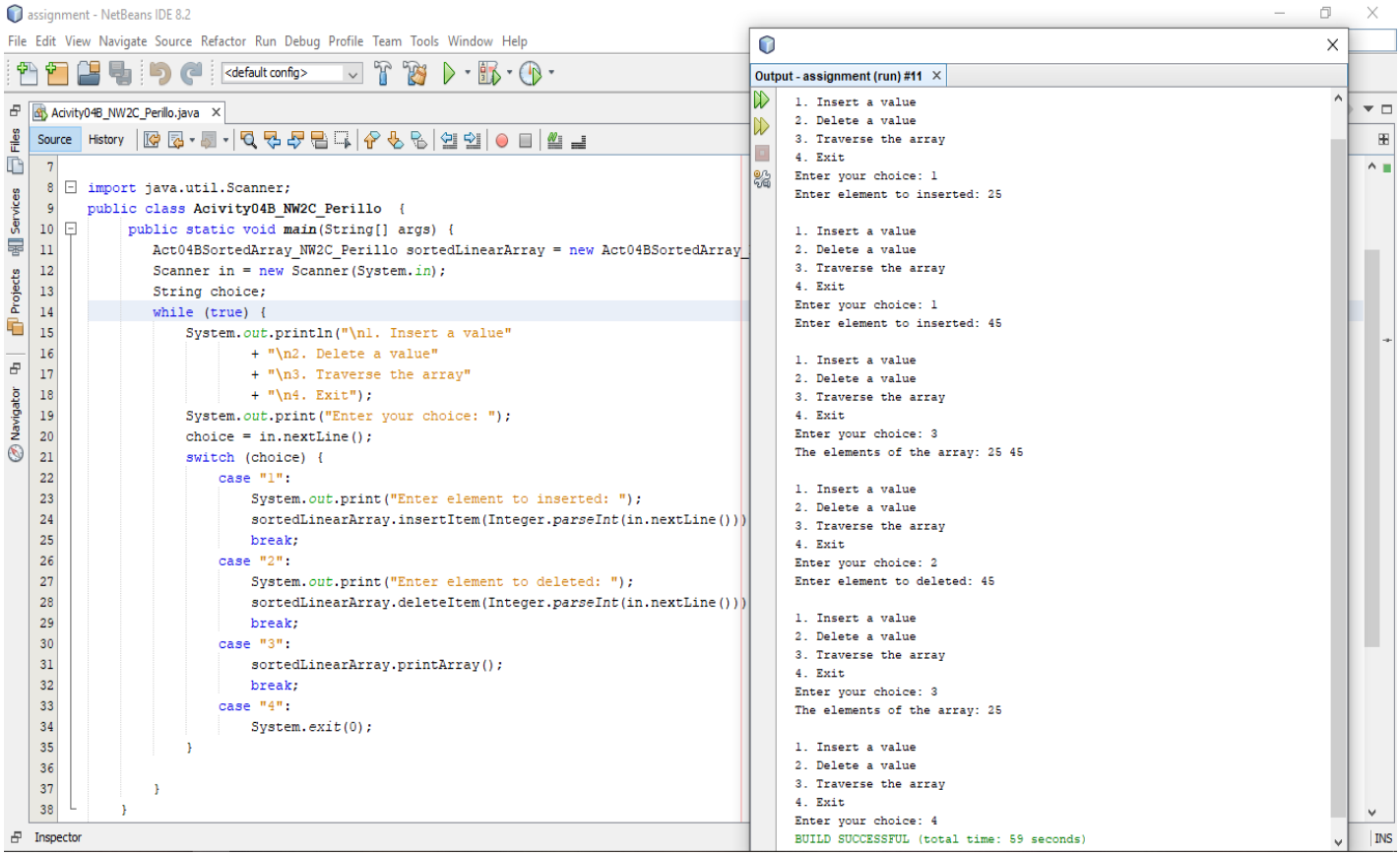
ALLYZA DIANE J. PERILLO
BS INFORMATION TECHNOLOGY – NW2C

Activity Sheet 04B
Implementation of Array Operations using Java

findLocationDelete()
- Search for the position in which ITEM will be deleted
- Return the position

Note: You are to decide what parameters are to be passed to the called method.

main()
- Display an option similar to this
  1. Insert a value
  2. Delete a value
  3. Traverse array
  4. Exit
- Provide a switch statement in which cases for the shown options are written
- Also the array must be checked if it is already full or not



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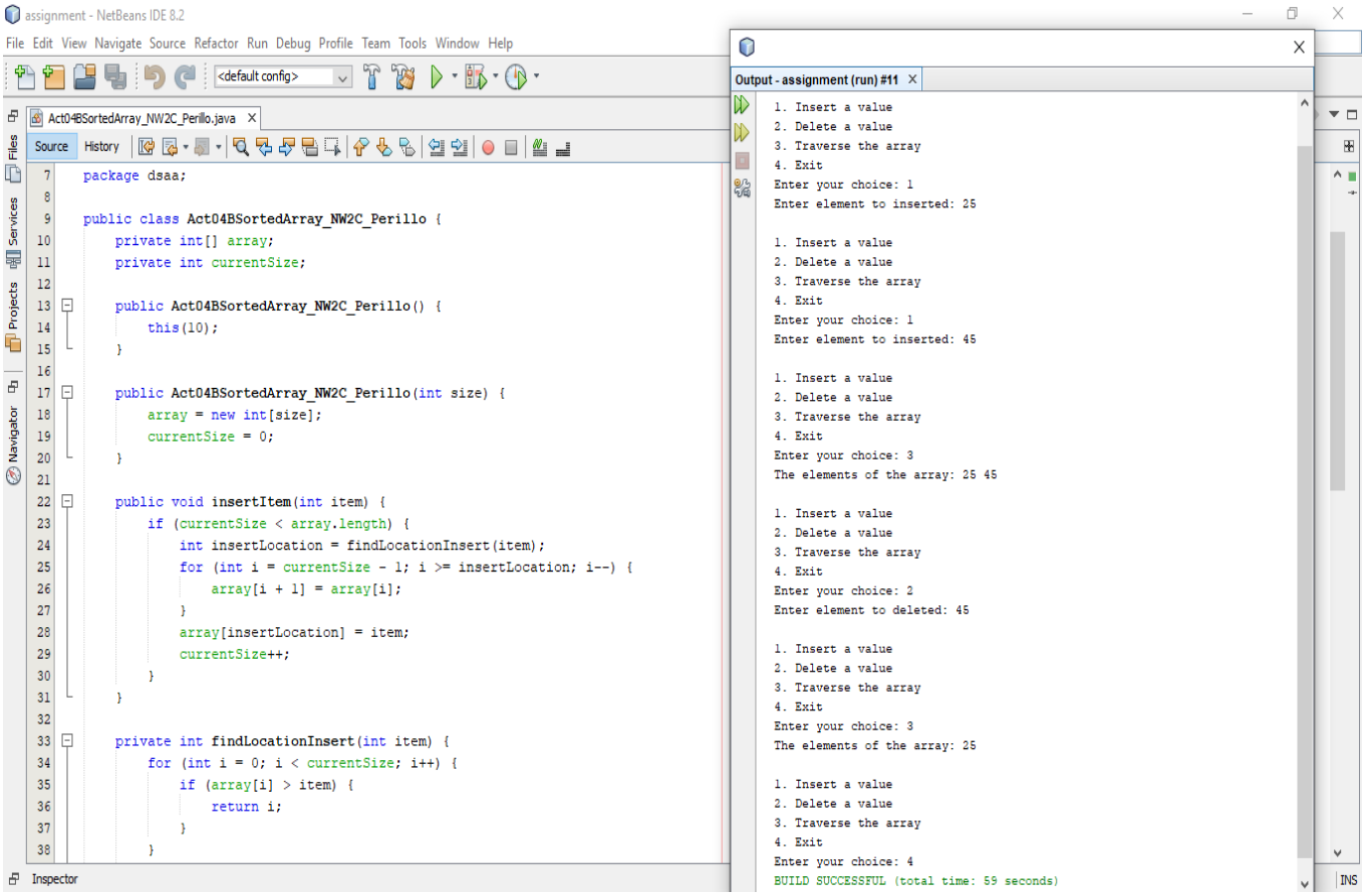
WEEK #4 - ACTIVITY




```
7   package dsaa;
8
9   public class Act04BSortedArray_NW2C_Perillo {
10      private int[] array;
11      private int currentSize;
12
13      public Act04BSortedArray_NW2C_Perillo() {
14          this(10);
15      }
16
17      public Act04BSortedArray_NW2C_Perillo(int size) {
18          array = new int[size];
19          currentSize = 0;
20      }
21
22      public void insertItem(int item) {
23          if (currentSize < array.length) {
24              int insertLocation = findLocationInsert(item);
25              for (int i = currentSize - 1; i >= insertLocation; i--) {
26                  array[i + 1] = array[i];
27              }
28              array[insertLocation] = item;
29              currentSize++;
30          }
31      }
32
33      private int findLocationInsert(int item) {
34          for (int i = 0; i < currentSize; i++) {
35              if (array[i] > item) {
36                  return i;
37              }
38          }
```