

ASSIGNMENT 06

1. Create a program that uses an ArrayList to store a list of names. The program should allow the user to add and remove names from the list, and should display the current list of names after each modification.

<https://codeshare.io/4eovP7>

```
Console ×
ArrayList [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 9:46:11 pm) [pid: 3492]
Enter a name to add : Sahana
Added Sahana to the list: [Sahana]
Enter a name to add : Meghana
Added Meghana to the list: [Sahana, Meghana]
Enter a name to add : Ambika
Added Ambika to the list: [Sahana, Meghana, Ambika]
Enter a name to add : q
Enter a name to remove : Ambika
Removed Ambika from the list: [Sahana, Meghana]
Enter a name to remove : Nikitha
Nikitha is not in the list.
Enter a name to remove :
```

2. Create a program that uses a HashMap to store a dictionary of words and their meanings. The program should allow the user to add new words and meanings, and should display the meaning of a word when the user enters the word.

<https://codeshare.io/EBE46P>

```
Console ×
HashMap [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 9:50:09 pm) [pid: 25820]
Enter a word : apple
Enter the meaning of 'apple': a round fruit with red
Enter a word : computer
Enter the meaning of 'computer': an electronic device
Enter a word : q
Enter a word to look up : not found in the dictionary.
```

3. Create a program that uses a TreeSet to store a list of integers. The program should allow the user to add and remove integers from the set, and should display the current set of integers after each modification.

<https://codeshare.io/wnvWqR>

```

Console ×
Treeset [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 9:54:21 pm) [pid: 23116]
Enter an integer to add: 7
Added 7 to the set: [7]
Enter an integer to add: 2
Added 2 to the set: [2, 7]
Enter an integer to add: 27
Added 27 to the set: [2, 7, 27]
Enter an integer to add: 72
Added 72 to the set: [2, 7, 27, 72]
Enter an integer to add: q
Enter an integer to remove: 15
15 not found in the set: [2, 7, 27, 72]
Enter an integer to remove: 27
Removed 27 from the set: [2, 7, 72]
Enter an integer to remove:

```

4. Create a program that uses a LinkedList to implement a queue. The program should allow the user to add and remove items from the queue, and should display the current contents of the queue after each modification.

<https://codeshare.io/mpbYLw>

```

Console ×
<terminated> Queue [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 9:57:08 pm – 9:57:39 pm) [pid: 28676]
Enter an item to add: Throwball
Added Throwball to the queue: [Throwball]
Enter an item to add: Basketball
Added Basketball to the queue: [Throwball, Basketball]
Enter an item to add: Football
Added Football to the queue: [Throwball, Basketball, Football]
Enter an item to add: Volleyball
Added Volleyball to the queue: [Throwball, Basketball, Football, Volleyball]
Enter an item to add: q
Removed Throwball from the queue: [Basketball, Football, Volleyball]
Removed Basketball from the queue: [Football, Volleyball]
Removed Football from the queue: [Volleyball]
Removed Volleyball from the queue: []

```

5. Create a program that uses a HashSet to store a set of strings. The program should read in a text file, and should add each word in the file to the set of strings. After all words have been added, the program should display the number of unique words in the file.

<https://codeshare.io/9OL4P8>

```

Console ×
<terminated> Hashset [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 10:02:11 pm – 10:02:11 pm) [pid: 27300]
Number of unique words: 2

```