

Assignment -6

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

```
Console x
<terminated> NameList [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-
Enter a name to add:
farman
farman added to the list.
Current list of names:
farman
Enter an option (1 to add a name, 2 to remove a name, 3 to quit):
2
Enter a name to remove:
farman
farman removed from the list.
Current list of names:
Enter an option (1 to add a name, 2 to remove a name, 3 to quit):
3
Goodbye!
```

<https://codeshare.io/QnEM1R>

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.

```
Console x
<terminated> Dictionary [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-
Enter an option (1 to add a word, 2 to look up a word, 3 to quit):
1
Enter a word to add:
farman
Enter the meaning of the word:
obedient
farman added to the dictionary.
Enter an option (1 to add a word, 2 to look up a word, 3 to quit):
2
Enter a word to look up:
farman
Meaning of farman: obedient
Enter an option (1 to add a word, 2 to look up a word, 3 to quit):
3
Goodbye!
```

<https://codeshare.io/oQ313L>

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.

```
Console ×
<terminated> IntegerSet [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-17.0
Enter an option (1 to add an integer, 2 to remove an integer, 3 to quit):
1
Enter an integer to add:
33
33 added to the set.
Current set: [33]
Enter an option (1 to add an integer, 2 to remove an integer, 3 to quit):
2
Enter an integer to remove:
33
33 removed from the set.
Current set: []
Enter an option (1 to add an integer, 2 to remove an integer, 3 to quit):
3
Goodbye!
```

<https://codeshare.io/WdEMEE>

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.

```
Console ×
<terminated> Queue [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-17.0
Enter an option (1 to add an item, 2 to remove an item, 3 to quit):
1
Enter an item to add:
syed
syed added to the queue.
Current queue: [syed]
Enter an option (1 to add an item, 2 to remove an item, 3 to quit):
1
Enter an item to add:
farman
farman added to the queue.
Current queue: [syed, farman]
Enter an option (1 to add an item, 2 to remove an item, 3 to quit):
2
syed removed from the queue.
Current queue: [farman]
Enter an option (1 to add an item, 2 to remove an item, 3 to quit):
3
Goodbye!
```

<https://codeshare.io/wnv1oD>

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.

```
Console ×
<terminated> UniqueWords [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-17.0
Number of unique words in the file: 1
|
```

<https://codeshare.io/pqkP10>