Java Assignment - 6

Topic: The Collections framework in Java

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/RbveDV

```
Enter an option: 1.Add a name 2.Remove a name 3.Exit

Enter a name:Aishwarya
Name added.
Current names:
Aishwarya

Enter an option: 1.Add a name 2.Remove a name 3.Exit

Enter a name:Bhumika
Name added.
Current names:
Aishwarya
Bhumika

Enter an option: 1.Add a name 2.Remove a name 3.Exit

2
Enter a name to remove:Bhumika
Name removed.
Current names:
Aishwarya
Enter an option: 1.Add a name 2.Remove a name 3.Exit

2
Enter a name to remove:Bhumika
Name removed.
Current names:
Aishwarya

Enter an option: 1.Add a name 2.Remove a name 3.Exit

3
```

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/nzoOWn

```
Enter an option: 1.Add a word and its meaning 2.Look up the meaning of a word 3.Quit

Enter a word:
Black
Enter its meaning:
Color
Word added.

Enter an option: 1.Add a word and its meaning 2.Look up the meaning of a word 3.Quit

Enter a word:
Enter a word:
Earth
Enter its meaning:
Planet
Word added.

Enter an option: 1.Add a word and its meaning 2.Look up the meaning of a word 3.Quit

2
Enter a word to look up:
Black
Meaning: Color

Enter an option: 1.Add a word and its meaning 2.Look up the meaning of a word 3.Quit

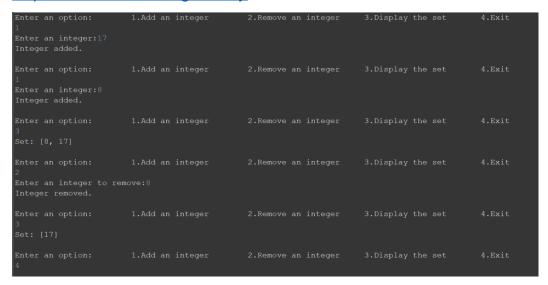
2
Enter a word to look up:
Black
Meaning: Color

Enter an option: 1.Add a word and its meaning 2.Look up the meaning of a word 3.Quit

2
Enter an option: 1.Add a word and its meaning 2.Look up the meaning of a word 3.Quit
```

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/gL9vWy



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/WdEb9M

Enter an option: 1 Enter an item:Peter Item queued.	1.Queue an	item 2.Dequeue	an item	3.tDisplay the que	ıe 4.Exit
Enter an option: 1 Enter an item:Parker Item queued.	1.Queue an	item 2.Dequeue	an item	3.tDisplay the que	ue 4.Exit
Enter an option: 3 Queue: [Peter, Parker]	1.Queue an	item 2.Dequeue	an item	3.tDisplay the que	ue 4.Exit
Enter an option: 2 Dequeued item: Peter	1.Queue an	item 2.Dequeue	an item	3.tDisplay the que	ıe 4.Exit
Enter an option: 3 Queue: [Parker]	1.Queue an	item 2.Dequeue	an item	3.tDisplay the que	ıe 4.Exit
Enter an option: 4	1.Queue an	item 2.Dequeue	an item	3.tDisplay the que	ue 4.Exit

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/8plkjA

