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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.

https://codeshare.io/K8E4DM

OUTPUT:

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/ZJEddQ

OUTPUT:

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/4eovLj

OUTPUT:

```
Enter an integer to add (or q to quit): 7
Set: [7]
Enter an integer to add (or q to quit): 9
Set: [7, 9]
Enter an integer to add (or q to quit): 4
Set: [4, 7, 9]
Enter an integer to add (or q to quit): d
Invalid input.
Enter an integer to add (or q to quit): q
Enter an integer to remove (or q to quit): 9
Set: [4, 7]
Enter an integer to remove (or q to quit): 12
Integer not found in set.
Enter an integer to remove (or q to quit): d
Invalid input.
Enter an integer to remove (or q to quit): q
```

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.
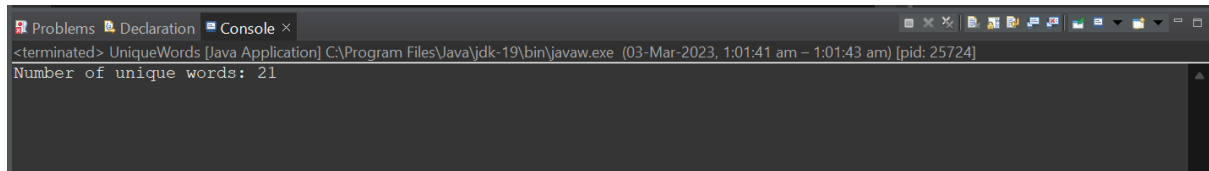
https://codeshare.io/PdEJqw

OUTPUT:

```
Queue: []
Enter an item to add (or q to quit): headphones
Queue: [headphones]
Enter an item to add (or q to quit): mouse
Queue: [headphones, mouse]
Enter an item to add (or q to quit): keyboard
Queue: [headphones, mouse, keyboard]
Enter an item to add (or q to quit): mobile
Queue: [headphones, mouse, keyboard, mobile]
Enter an item to add (or q to quit): q
Queue: [headphones, mouse, keyboard, mobile]
Press enter to remove an item (or q to quit): mobile
Queue: [mouse, keyboard, mobile]
Press enter to remove an item (or q to quit): mouse
Queue: [keyboard, mobile]
Press enter to remove an item (or q to quit): q
```

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/wnvWVB

OUTPUT:


```
Problems  Declaration  Console ×
<terminated> UniqueWords [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (03-Mar-2023, 1:01:41 am – 1:01:43 am) [pid: 25724]
Number of unique words: 21
```