

## ASSIGNMENT -6

1. Create a program that uses an arraylist to store a list of names. The program should 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/6pkMDk>

```
Current list of names:
No names in list.
Enter 'add' to add a name, 'remove' to remove a name, or 'quit' to exit:
add
Enter name to add:
Alice
Current list of names:
0: Alice
Enter 'add' to add a name, 'remove' to remove a name, or 'quit' to exit:
add
Enter name to add:
Bob
Current list of names:
0: Alice
1: Bob
Enter 'add' to add a name, '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/wnvx37>

```
Enter a word to look up, 'add' to add a new word, or 'quit' to exit:
hello
Meaning of 'hello': used as a greeting or to begin a telephone conversation
Enter a word to look up, 'add' to add a new word, or 'quit' to exit:
world
Meaning of 'world': the earth, together with all of its countries and peoples
Enter a word to look up, 'add' to add a new word, or 'quit' to exit:
goodbye
'goodbye' not found in dictionary.
Enter a word to look up, 'add' to add a new word, or 'quit' to exit:
add
Enter word to add:
goodbye
Enter meaning of word:
an expression of good wishes when parting or at the end of a conversation
Added 'goodbye' to dictionary with meaning: an expression of good wishes when parti
Enter a word to look up, 'add' to add a new
```

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/pqkjr9>

```
Enter an integer to add, 'remove' to remove an integer, or 'quit' to exit:
1
Added 1 to set.
Current set: [1]
Enter an integer to add, 'remove' to remove an integer, or 'quit' to exit:
2
Added 2 to set.
Current set: [1, 2]
Enter an integer to add, 'remove' to remove an integer, or 'quit' to exit:
3
Added 3 to set.
Current set: [1, 2, 3]
Enter an integer to add, 'remove' to remove an integer, or 'quit' to exit:
2
2 already in set.
Current set: [1, 2, 3]
```

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 and should display the current contents of the queue after each modification.

<https://codeshare.io/mpb7Dk>

```
Enter item to add to queue: apple
Item added to queue.
1. Add item to queue
2. Remove item from queue
3. Display current contents of queue
4. Exit
Enter your choice: 1
Enter item to add to queue: banana
Item added to queue.
1. Add item to queue
2. Remove item from queue
3. Display current contents of queue
4. Exit
Enter your choice: 3
Current contents of queue: [apple, banana]
1. Add item to queue
2. Remove item from queue
3. Display current contents of queue
4. Exit
Enter your choice: 2
Item removed from queue: apple
1. Add item to queue
2. Remove item from queue
3. Display current contents of queue
4. Exit
Enter your choice: 3
Current contents of queue: [banana]
1. Add item to queue
2. Remove item from queue
3. Display current contents of queue
4. Exit
Enter your choice: 4
Exiting program.
```

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/pqkjm0>

```
Number of unique words in file: 22
```