## 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.

Code: https://codeshare.io/bvOynb

```
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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.

Code: https://codeshare.io/PdE0dP

```
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 Darraysortjava Dbinarysearc... Dstringsplit... Dreplacejava Dsuppresswarnings("resource")

Scanner input = new Scanner(System.in);
                                                                                         🛘 replace.java 🔼 Substringcl...
                                                                                                                                                 🛚 *length.java 🕒 Namelist.java 🚨 Dictionary.java ×
                                                                                                                                                                                                                                                                        ፤ Outl
                                                                                                                                                                                                                                                                           .
                                                                                                                                                                                                                                                                           C
                       while (true) {
    System.out.println("Enter an option:");
    System.out.println("1. Add a word and its meaning");
    System.out.println("2. Look up a word");
    System.out.println("3. Exit");
                             int choice = input.nextInt();
input.nextLine(); // consume the newline character
                                           case 1:
    System.out.print("Enter a word: ");
    String wordToAdd = input.nextLine();
    System.out.print("Enter its meaning: ");
    String meaningToAdd = input.nextLine();
    dictionary.put(wordToAdd, meaningToAdd);
    System.out.println(wordToAdd + " has been added to the dictionary.");
    break;
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Dictionary [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (Mar 1, 2023, 8:06:19 AM) [pid: 19280]

1. Add a word and its meaning
2. Look up a word
3. Exit
Enter a word to look up: a Meaning of a: b
Enter an option:

1. Add a word and its meaning

2. Look up a word
3. Exit
```

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.

Code: https://codeshare.io/pqkjqx

```
Jacob System.out.println(numberfoRemove + "is not in the set.");

| System.out.println(numberfoRemove + "is not in the set.");
| System.out.println("Current set of integers: " + integerSet);
| System.out.println("Current set of integers: " + integerSet);
| System.out.println("Exiting program...");
| System.out.println("Exiting program...");
| System.out.println("Invalid option.");
| System.out.println("
```

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.

Code: https://codeshare.io/dwQywZ

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.

Code: https://codeshare.io/bvOyvbs