Java Assignment – 6

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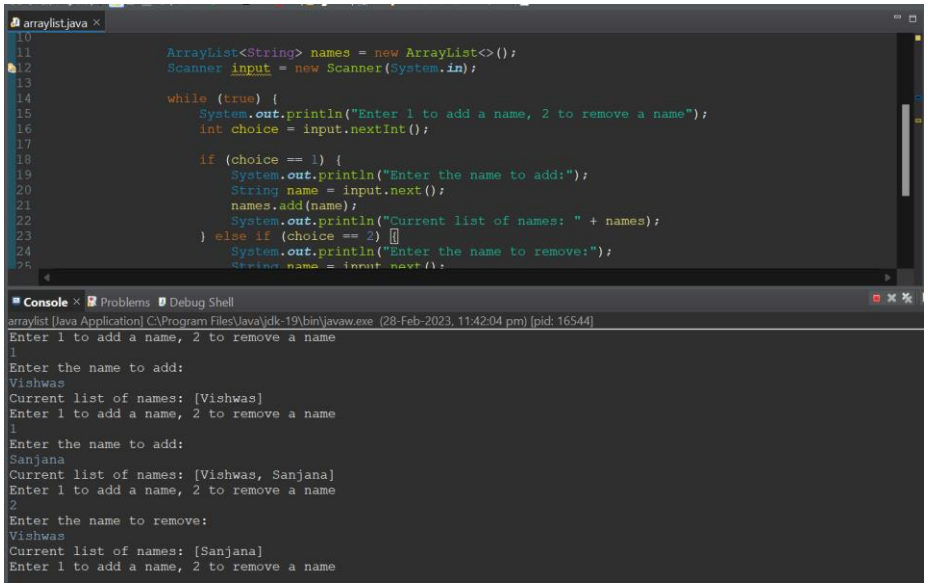
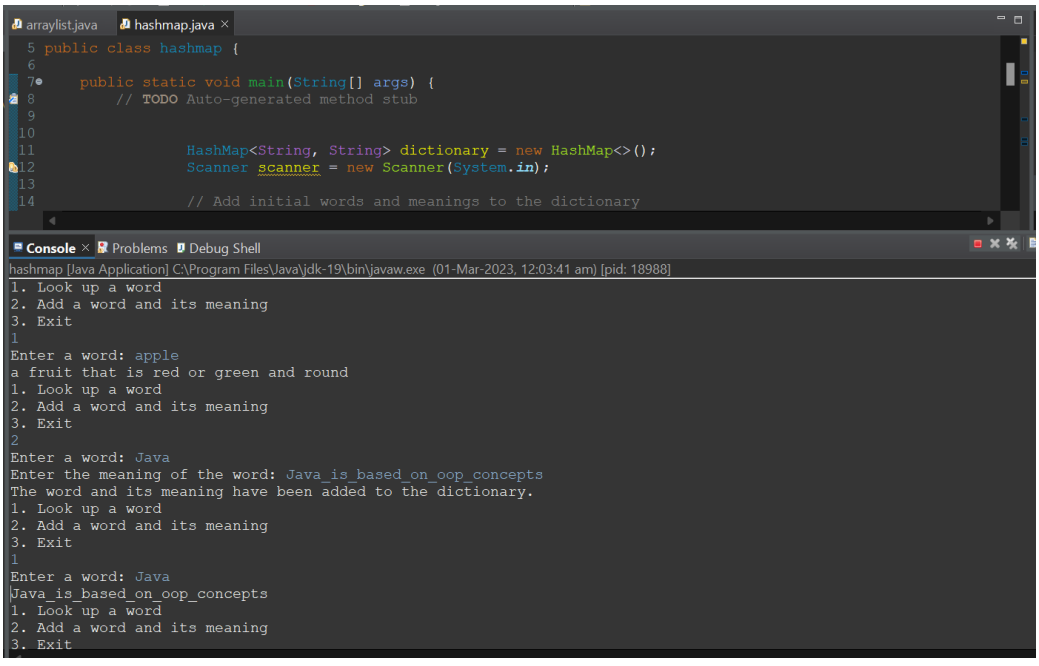
1. **Create a program that uses an ArrayList to store a list of names. The program should allow the user to add and remove names from the list, and should display the current list of names after each modification.**

   https://codeshare.io/9OLxZ0



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/MNEznQ



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/9OLxxX

```
treeset.java
public class treeset {

    public static void main(String[] args) {
        // TODO Auto-generated method stub


                // create a new TreeSet object to store the set of integers
                TreeSet<Integer> intSet = new TreeSet<Integer>();

                // create a new Scanner object to read input from the user

Console  Problems  Debug Shell
treeset [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 12:08:14 am) [pid: 9392]
1. Add an integer
2. Remove an integer
3. Display the set
4. Exit
Enter your choice:
1
Enter an integer to add:
10
10 added to the set.
Welcome to the integer set!
1. Add an integer
2. Remove an integer
3. Display the set
4. Exit
Enter your choice:
3
Current set: [10]
Welcome to the integer set!
1. Add an integer
2. Remove an integer
3. Display the set
```

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/78m33k

```
linkedlist.java
public class linkedlist {

    public static void main(String[] args) {
        // TODO Auto-generated method stub


                Queue<String> queue = new LinkedList<>();
                Scanner scanner = new Scanner(System.in);

                while (true) {

Console  Problems  Debug Shell
linkedlist [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 12:14:50 am) [pid: 21792]
Enter 1 to add item to queue, 2 to remove item from queue, or 3 to exit:
1
Enter item to add to queue:
10
Current contents of queue: [10]
Enter 1 to add item to queue, 2 to remove item from queue, or 3 to exit:
1
Enter item to add to queue:
30
Current contents of queue: [10, 30]
Enter 1 to add item to queue, 2 to remove item from queue, or 3 to exit:
1
Enter item to add to queue:
20
Current contents of queue: [10, 30, 20]
Enter 1 to add item to queue, 2 to remove item from queue, or 3 to exit:
2
Removed item from queue: 10
Current contents of queue: [30, 20]
Enter 1 to add item to queue, 2 to remove item from queue, or 3 to 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/dwQWyy