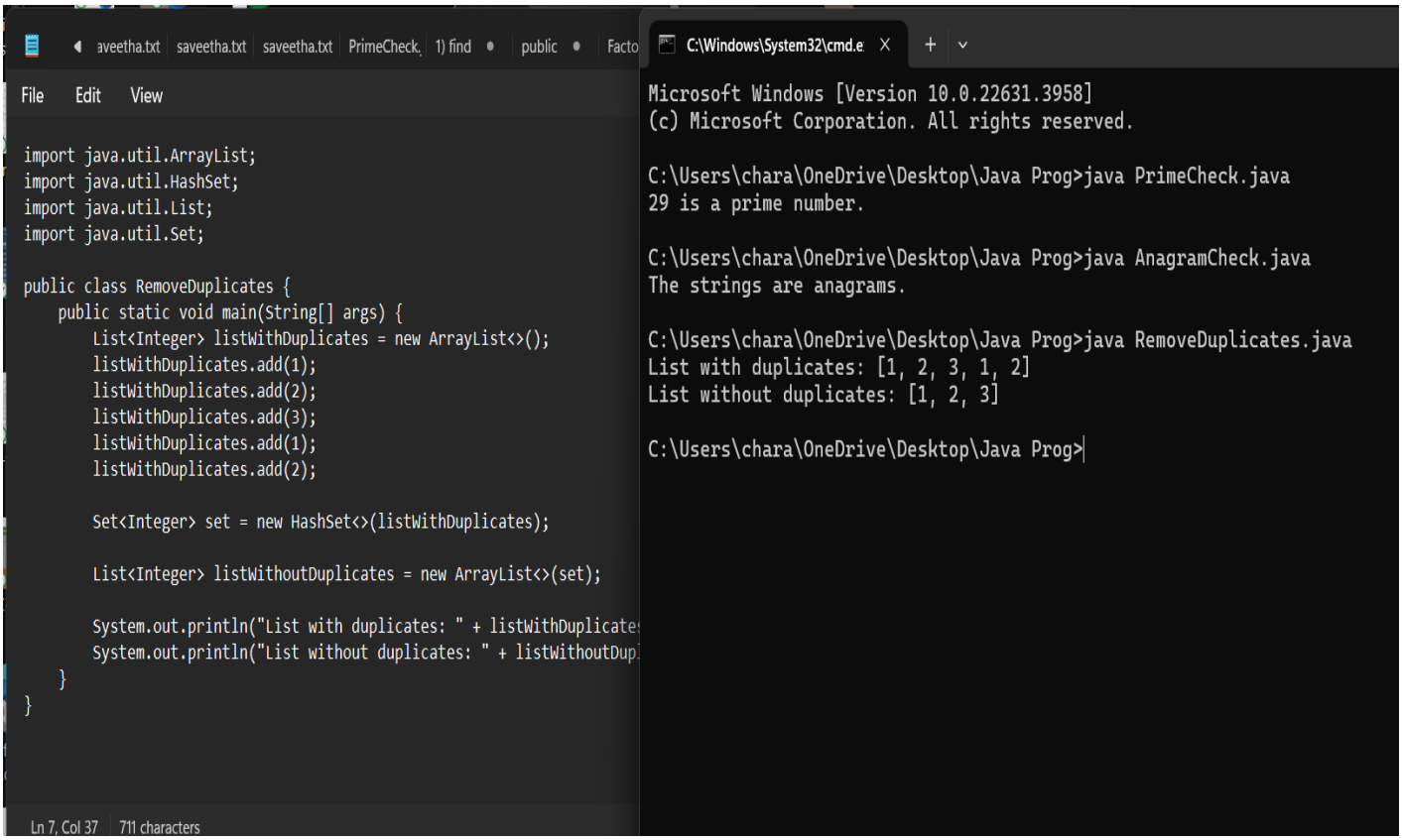
1) Duplicate numbers in array



```
import java.util.ArrayList;
import java.util.HashSet;
import java.util.List;
import java.util.Set;

public class RemoveDuplicates {
    public static void main(String[] args) {
        List<Integer> listWithDuplicates = new ArrayList<>();
        listWithDuplicates.add(1);
        listWithDuplicates.add(2);
        listWithDuplicates.add(3);
        listWithDuplicates.add(1);
        listWithDuplicates.add(2);

        Set<Integer> set = new HashSet<>(listWithDuplicates);

        List<Integer> listWithoutDuplicates = new ArrayList<>(set);

        System.out.println("List with duplicates: " + listWithDuplicate
        System.out.println("List without duplicates: " + listWithoutDup
    }
}
```

```
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C:\Users\chara\OneDrive\Desktop\Java Prog>java PrimeCheck.java
29 is a prime number.

C:\Users\chara\OneDrive\Desktop\Java Prog>java AnagramCheck.java
The strings are anagrams.

C:\Users\chara\OneDrive\Desktop\Java Prog>java RemoveDuplicates.java
List with duplicates: [1, 2, 3, 1, 2]
List without duplicates: [1, 2, 3]

C:\Users\chara\OneDrive\Desktop\Java Prog>
```
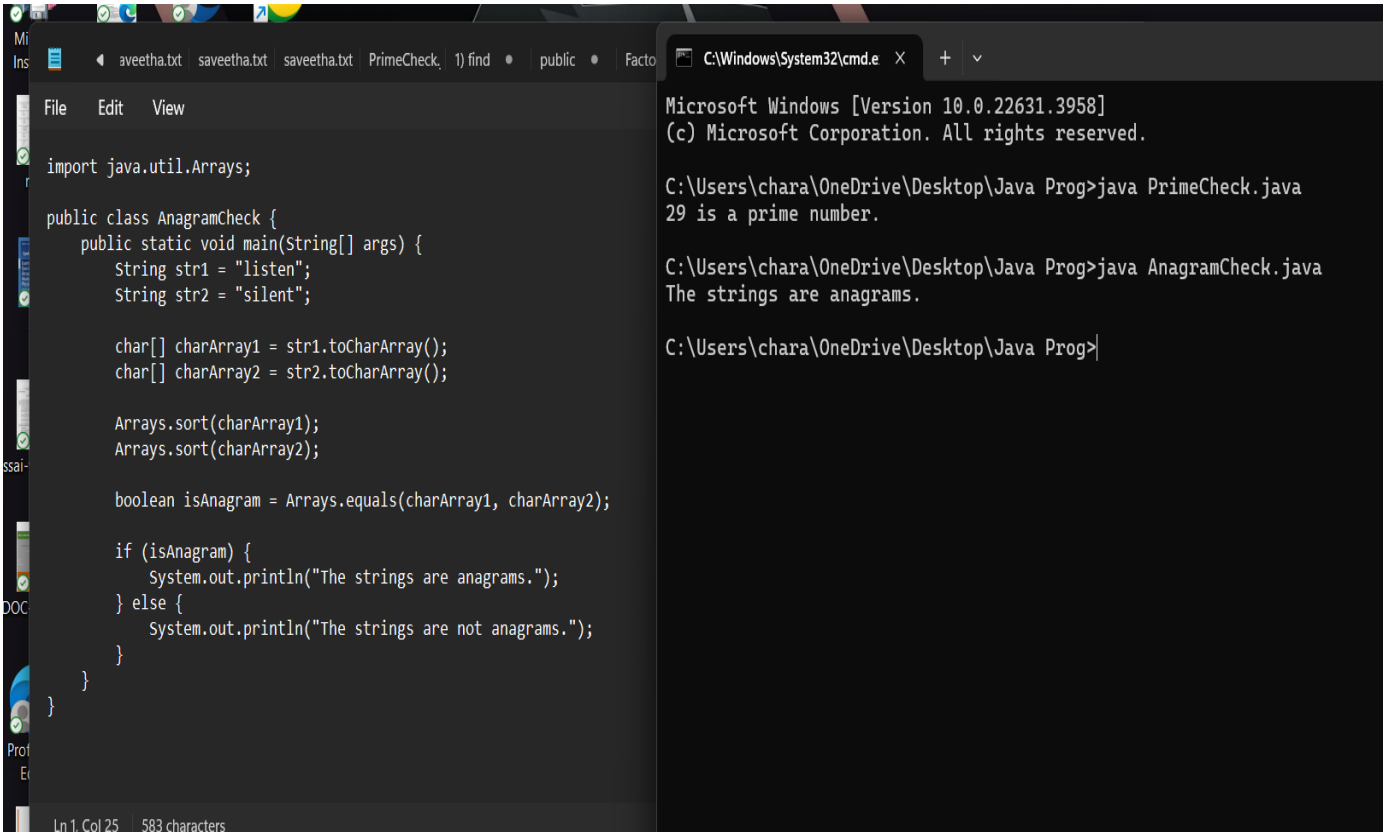
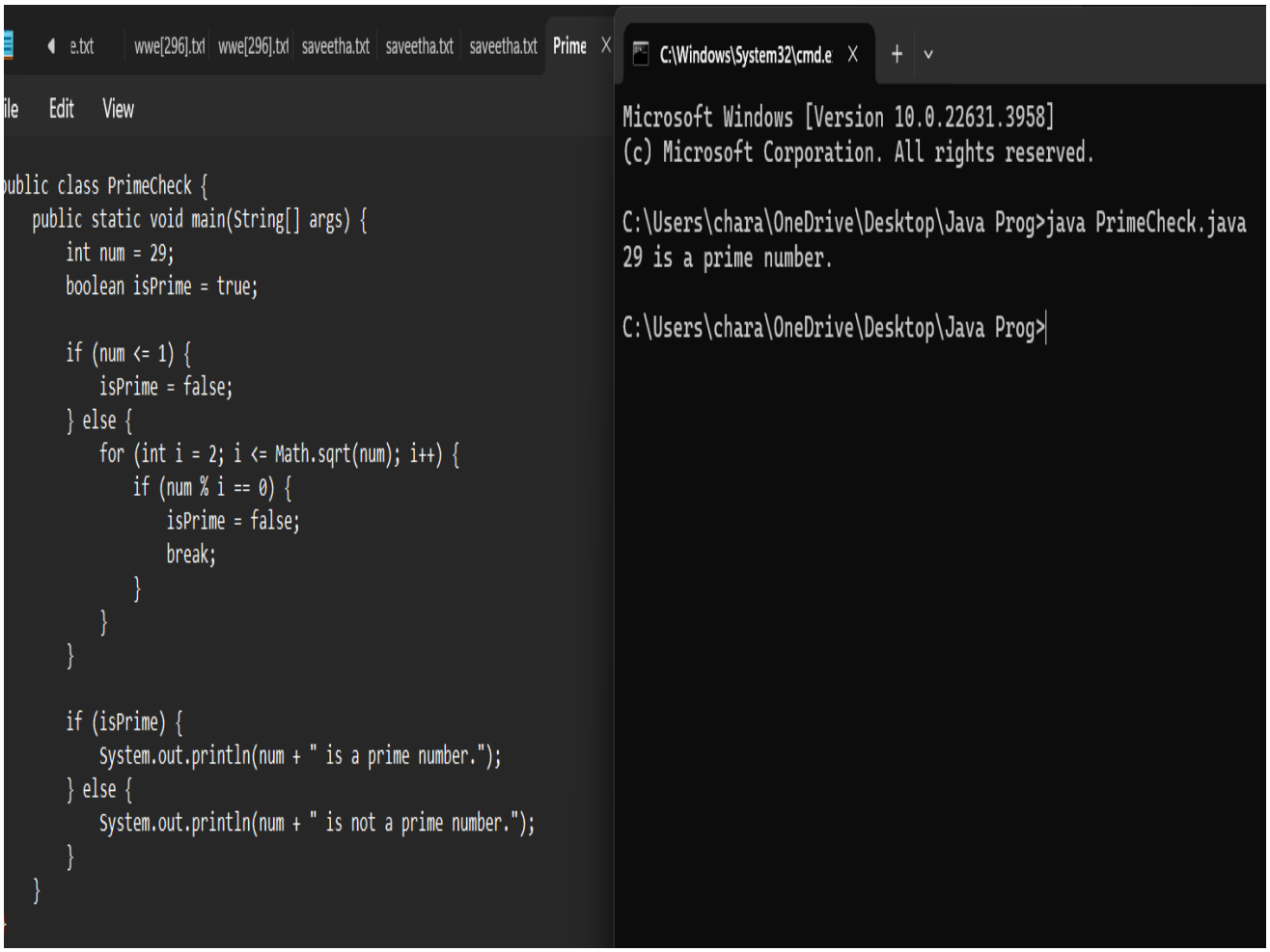

2) Anagram of String



```
import java.util.Arrays;

public class AnagramCheck {
    public static void main(String[] args) {
        String str1 = "listen";
        String str2 = "silent";

        char[] charArray1 = str1.toCharArray();
        char[] charArray2 = str2.toCharArray();

        Arrays.sort(charArray1);
        Arrays.sort(charArray2);

        boolean isAnagram = Arrays.equals(charArray1, charArray2);

        if (isAnagram) {
            System.out.println("The strings are anagrams.");
        } else {
            System.out.println("The strings are not anagrams.");
        }
    }
}
```

```
Microsoft Windows [Version 10.0.22631.3958]
(c) Microsoft Corporation. All rights reserved.

C:\Users\chara\OneDrive\Desktop\Java Prog>java PrimeCheck.java
29 is a prime number.

C:\Users\chara\OneDrive\Desktop\Java Prog>java AnagramCheck.java
The strings are anagrams.

C:\Users\chara\OneDrive\Desktop\Java Prog>
```

3) Prime number or not



```
e.txt | wwe[296].txt | wwe[296].txt | saveetha.txt | saveetha.txt | saveetha.txt | Prime

ile  Edit  View

ublic class PrimeCheck {
    public static void main(String[] args) {
        int num = 29;
        boolean isPrime = true;

        if (num <= 1) {
            isPrime = false;
        } else {
            for (int i = 2; i <= Math.sqrt(num); i++) {
                if (num % i == 0) {
                    isPrime = false;
                    break;
                }
            }
        }

        if (isPrime) {
            System.out.println(num + " is a prime number.");
        } else {
            System.out.println(num + " is not a prime number.");
        }
    }
```

```
C:\Windows\System32\cmd.e

Microsoft Windows [Version 10.0.22631.3958]
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C:\Users\chara\OneDrive\Desktop\Java Prog>java PrimeCheck.java
29 is a prime number.

C:\Users\chara\OneDrive\Desktop\Java Prog>
```