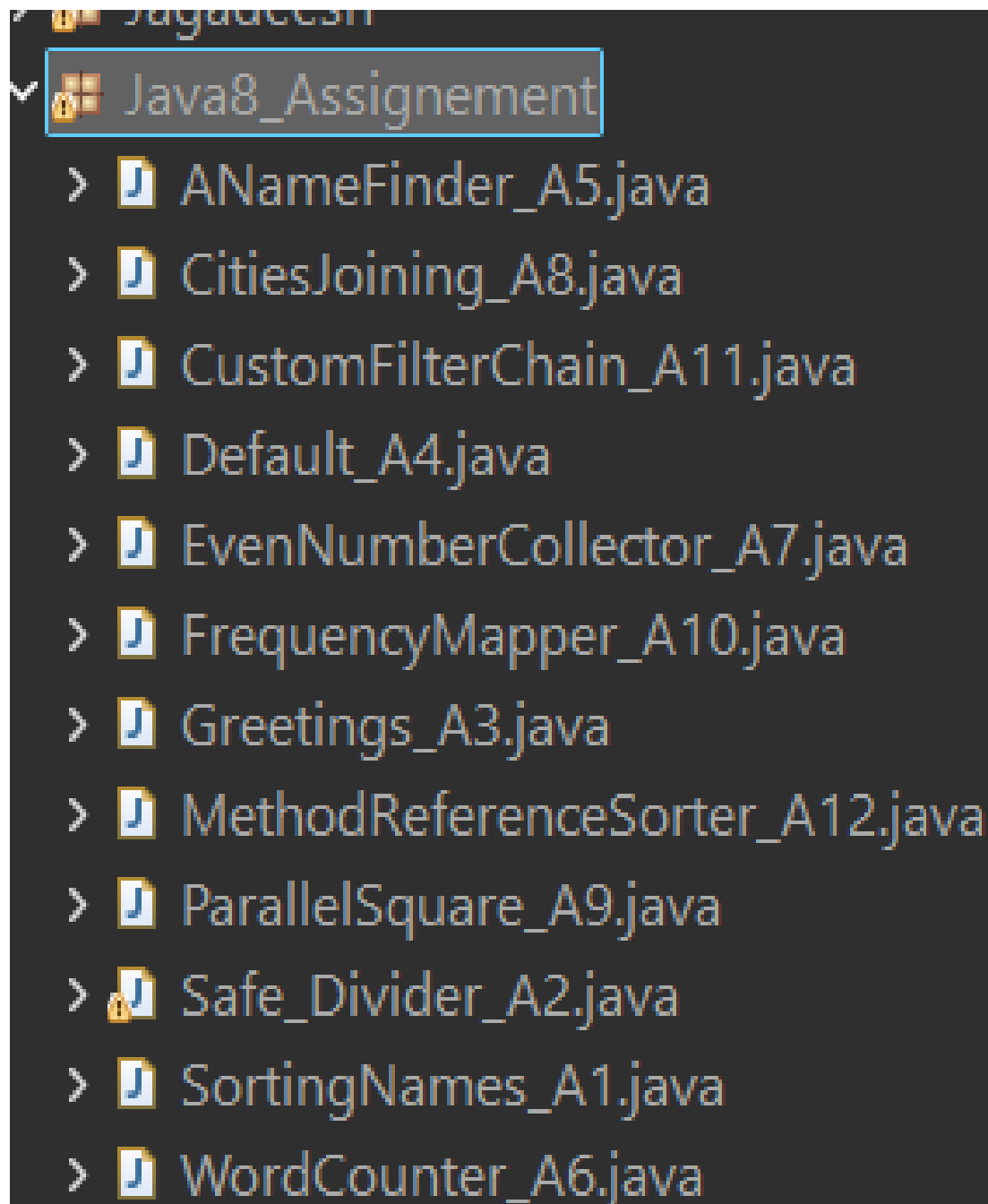


Java 8 Assignment!



```
SortingNames_A1.java ×
1 package Java8_Assignment;
2
3 import java.util.*;
4
5 public class SortingNames_A1 {
6
7     public static void main(String[] args) {
8         List<String> list = new ArrayList<>();
9         list.add("Ravi");
10        list.add("Raju");
11        list.add("Rao");
12        list.add("Ramesh");
13        list.add("Rakesh");
14
15        list.sort((a,b) -> a.compareTo(b));
16        for(String list : list) {
17            System.out.println(list);
18        }
19    }
20
21 }
22
```

Console ×

<terminated> SortingNames_A1 [Java Application] C:\Users\Jagadeesh D<

Raju
Rakesh
Ramesh
Rao
Ravi

```
Safe_Divider_A2.java ×
1 package Java8_Assignment;
2
3 import java.util.Scanner;
4
5 public class Safe_Divider_A2{
6     public static void main(String[] args) {
7         Scanner sc = new Scanner(System.in);
8         System.out.println("Enter two Numbers");
9         int a = sc.nextInt();
10        int b = sc.nextInt();
11        int c = a/b;
12
13        if(b==0) {
14            System.out.println("Not allowed");
15        }
16        else {
17            System.out.println("Value is" + " " +c);
18        }
19    }
20
21 }
```

Console ×

<terminated> Safe_Divider_A2 [Java Application] C:\Users\Jagadeesh Dow

Enter two Numbers
50
10
Value is 5

```
Greetings_A3.java x
1 package Java8_Assignment;
2
3 @FunctionalInterface
4 interface Greeting
5 {
6     void greet();
7
8 }
9
10 public class Greetings_A3 {
11
12     public static void main(String[] args) {
13
14         Greeting g= ()->System.out.println("good Mrng");
15         g.greet();
16     }
17 }
18
19 }
20
```

Console x

<terminated> Greetings_A3 [Java Application] C:\Users\Jagadeesh Dowlu

good Mrng


Error Log x

```
Default_A4.java x
1 package Java8_Assignment;
2
3 interface meeting{
4     void meet();
5
6     default void schedule_meet(){
7         System.out.println("Meeting is already Scheduled");
8     }
9 }
10
11 public class Default_A4 {
12
13     public static void main(String[] args) {
14         meeting m=()->System.out.println("Meeting is going on");
15         m.meet();
16         m.schedule_meet();
17     }
18 }
19 }
```

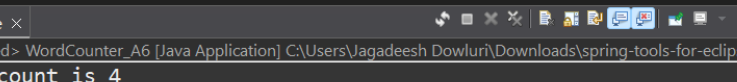
Console x

<terminated> Default_A4 [Java Application] C:\Users\Jagadeesh Dowlu\

Meeting is going on
Meeting is already Scheduled



The screenshot shows the Eclipse IDE's console window. The title bar reads "Console x". The console output shows the prompt "<terminated> ANameFinder_A5 [Java Application] C:\Users\Jagadeesh Do" followed by the command "Terminate" and the output "Names are : [Anil, Ammai]". The console window has a dark background and a scrollbar on the right.



The screenshot shows the Eclipse IDE's console window. The title bar indicates the application is 'WordCounter_A6 [Java Application]' running from the path 'C:\Users\Jagadeesh Dowluri\Downloads\spring-tools-for-eclipse-4.31.0.REL'. The console output consists of two lines: a prompt '<terminated>' followed by the text 'Total count is 4'.

```
<terminated> WordCounter_A6 [Java Application] C:\Users\Jagadeesh Dowluri\Downloads\spring-tools-for-eclipse-4.31.0.REL
Total count is 4
```

```
EvenNumberCollector_A7.java x
1 package Java8_JAVA/src/Java8_Assignment/EvenNumberCollector_A7.java
2
3 import java.util.*;
4 import java.util.stream.Collectors;
5
6 public class EvenNumberCollector_A7 {
7
8     public static void main(String[] args) {
9         List<Integer> num = new ArrayList<>();
10        num.add(5);
11        num.add(12);
12        num.add(14);
13        num.add(11);
14        num.add(20);
15        num.add(22);
16        num.add(19);
17        num.add(40);
18
19        List<Integer> EvenNumbers = num.stream()
20                                   .filter(n->n%2==0)
21                                   .collect(Collectors.toList());
22        System.out.println("The Even numbers are:" + " " + EvenNumbers);
23
24
25    }
26 }
27
28 }
29
```

Console x

<terminated> EvenNumberCollector_A7 [Java Application] C:\Users\Vagadeesh Dowluri\Do
The Even numbers are: [12, 14, 20, 22, 40]

```
CitiesJoining_A8.java x
1 package Java8_Assignment;
2 import java.util.*;
3 import java.util.stream.Collectors;
4
5 public class CitiesJoining_A8 {
6     public static void main(String[] args) {
7         List<String> city = new ArrayList<>();
8         city.add("Vizag");
9         city.add("Vellore");
10        city.add("Goa");
11        city.add("Hyderabad");
12        city.add("Chennai");
13        city.add("Coimbatore");
14        city.add("Banglore");
15
16        List<String> Cities = city.stream().collect(Collectors.toList());
17        System.out.println("Cities list is:"+ " " +Cities);
18    }
19 }
```

Console x

<terminated> CitiesJoining_A8 [Java Application] C:\Users\Vagadeesh Dowluri\Downloads\spring-tools-for-eclipse-4.31.0.RELEASE-e4.36.0-win32.win32.x86_64\
Cities list is: [Vizag, Vellore, Goa, Hyderabad, Chennai, Coimbatore, Banglore]

```
ParallelSquare_A9.java x
1 package Java8_Assignment;
2 import java.util.*;
3
4
5 public class ParallelSquare_A9 {
6
7     public static void main(String[] args) {
8         List<Integer> num = new ArrayList<>();
9         num.add(10);
10        num.add(5);
11        num.add(7);
12        num.add(9);
13        num.add(11);
14
15        num.parallelStream()
16        .forEachOrdered(n->System.out.println("Squares of Number" + " " +n+" is :" + (n*n)));
17
18
19
20    }
21
22 }
```

Console x

<terminated> ParallelSquare_A9 [Java Application] C:\Users\Jagadeesh Dowluri\Downloads\spring-tools-for-eclipse-4.31.0.RELEASE-e4.36.0-win32.win32.x86_64

Squares of Number 10 is :100
Squares of Number 5 is :25
Squares of Number 7 is :49
Squares of Number 9 is :81
Squares of Number 11 is :121

```
FrequencyMapper_A10.java x
1 package Java8_Assignment;
2 import java.util.*;
3 import java.util.stream.Collectors;
4
5 public class FrequencyMapper_A10 {
6
7     public static void main(String[] args) {
8         List<String> names = new ArrayList<>();
9         names.add("Rahul");
10        names.add("Ramesh");
11        names.add("Suresh");
12        names.add("Wipro");
13        names.add("Rahul");
14        names.add("Ramesh");
15        names.add("Wipro");
16        names.add("Ramesh");
17        names.add("Wipro");
18
19        Map<String, Long> nameCount = names.stream()
20        .collect(Collectors.groupingBy(name -> name, LinkedHashMap::new, Collectors.counting()));
21        System.out.println(nameCount);
22    }
23
24 }
25
```

Console x

<terminated> FrequencyMapper_A10 [Java Application] C:\Users\Jagadeesh Dowluri\Down

{Rahul=2, Ramesh=3, Suresh=1, Wipro=3}

```
CustomFilterChain_A11.java ×
1 package Java8_Assignment;
2
3 import java.util.ArrayList;
4 import java.util.List;
5 import java.util.function.Predicate;
6 import java.util.stream.Collectors;
7
8 public class CustomFilterChain_A11 {
9
10     public static void main(String[] args) {
11         List<String> list = new ArrayList<>();
12         list.add("Anisha");
13         list.add("Anusha");
14         list.add("Akash");
15         list.add("Rajesh");
16         list.add("Rakesh");
17
18         Predicate<String> startsWithA = n -> n.startsWith("A");
19         Predicate<String> endsWitha = n -> n.endsWith("a");
20
21         List<String> Names = list.stream()
22             .filter(startsWithA.and(endsWitha))
23             .collect(Collectors.toList());
24
25         System.out.println("The names are : " + " " + Names);
26
27     }}
```

Console ×

<terminated> CustomFilterChain_A11 [Java Application] C:\Users\Jagadeesh Dowluri\Downl
The names are : [Anisha, Anusha]

```
MethodReferenceSorter_A12.java ×
1 package Java8_Assignment;
2
3
4 import java.util.*;
5
6 public class MethodReferenceSorter_A12 {
7
8     public static void main(String[] args) {
9         List<String> names = new ArrayList<>();
10         names.add("Zebra");
11         names.add("Apple");
12         names.add("Monkey");
13         names.add("Elephant");
14         names.add("Dog");
15
16         names.sort(String::compareTo);
17         names.forEach(System.out::println);
18     }
19 }
20
```

Console ×

<terminated> MethodReferenceSorter_A12 [Java Application] C:\Users\Jagadeesh Dowluri\Downl
Apple
Dog
Elephant
Monkey
Zebra