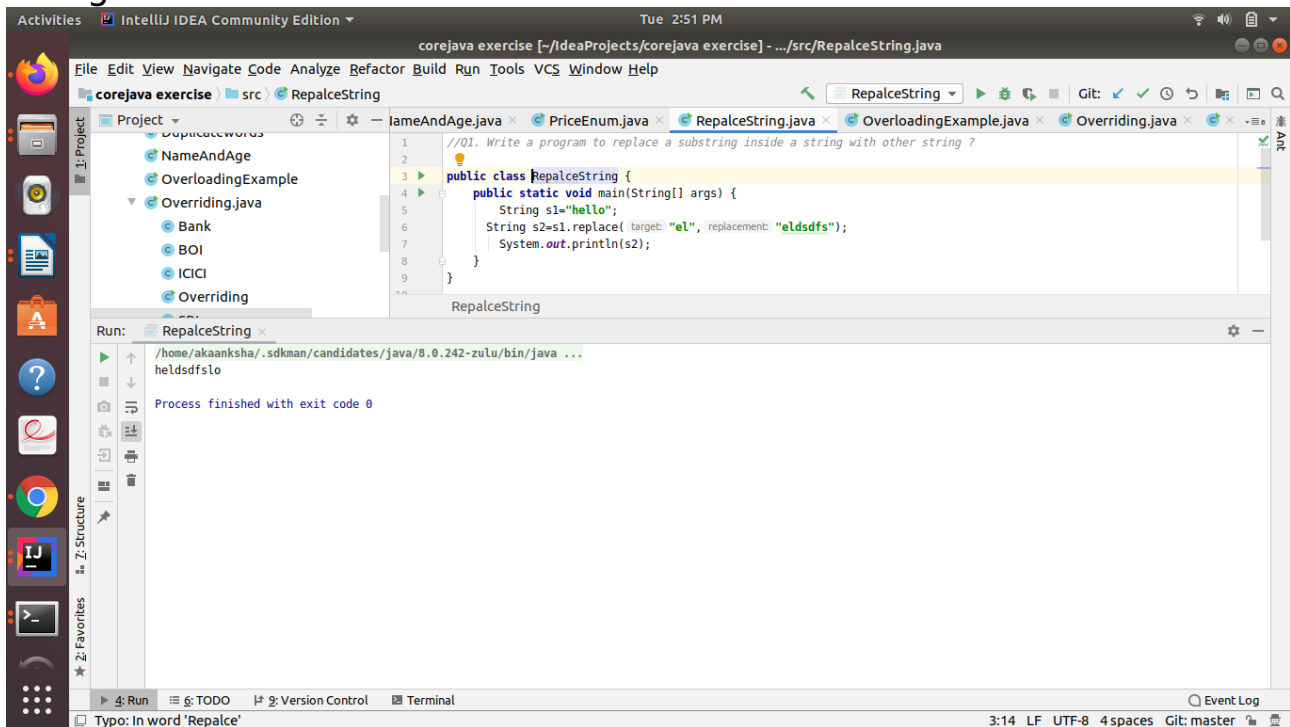


Q1. Write a program to replace a substring inside a string with other string ?

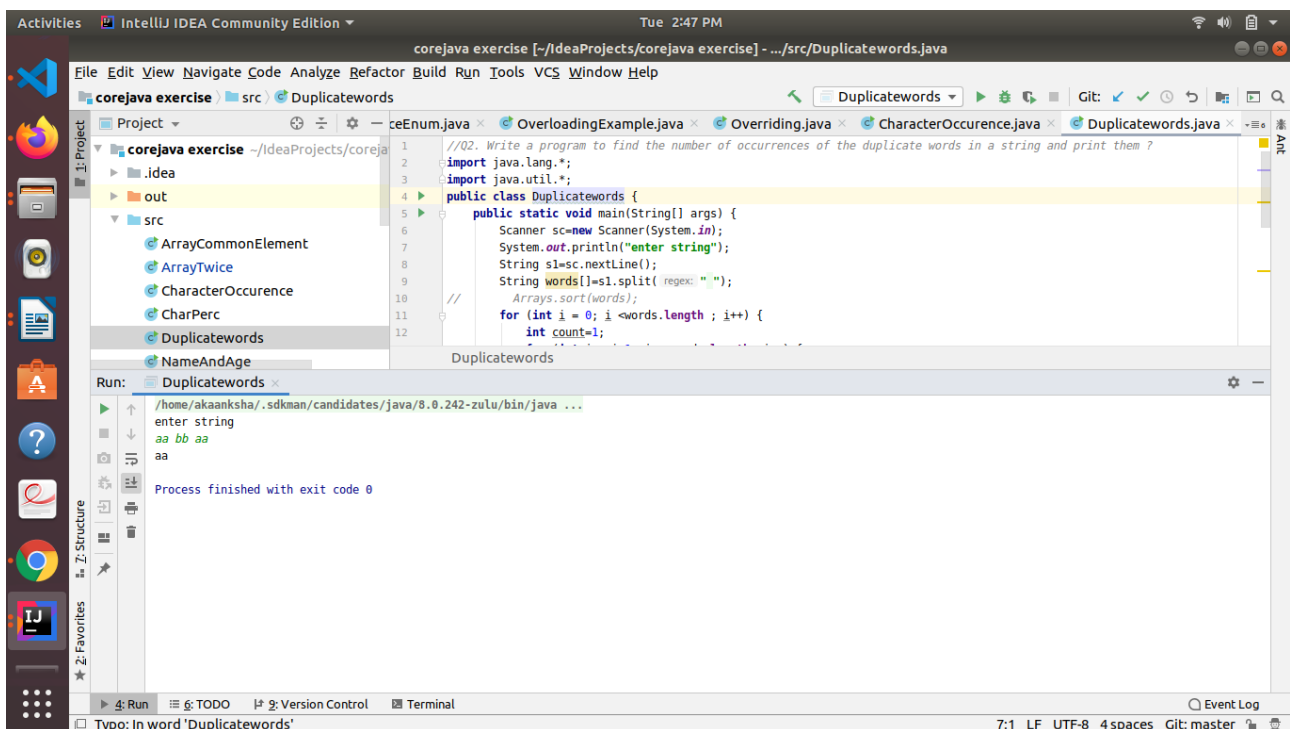


The screenshot shows the IntelliJ IDEA Community Edition interface. The main editor displays a Java file named `RepalceString.java` (note the typo) with the following code:

```
1 //Q1. Write a program to replace a substring inside a string with other string ?
2
3 public class RepalceString {
4     public static void main(String[] args) {
5         String s1="hello";
6         String s2=s1.replace( target: "el", replacement: "eldsdfs");
7         System.out.println(s2);
8     }
9 }
```

The Run window shows the command executed: `/home/akaanksha/.sdkman/candidates/java/8.0.242-zulu/bin/java ...` and the output: `helsdfslo` (note the typo). The process finished with exit code 0.

Q2. Write a program to find the number of occurrences of the duplicate words in a string and print them ?

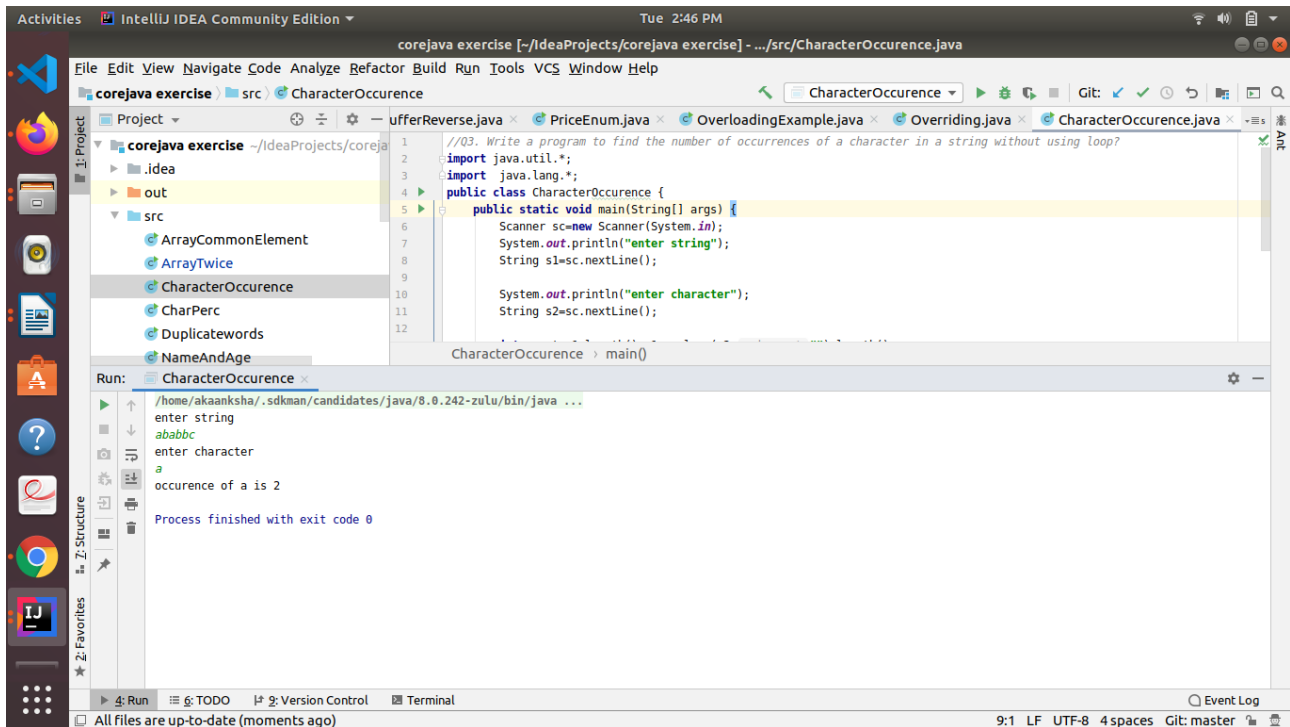


The screenshot shows the IntelliJ IDEA Community Edition interface. The main editor displays a Java file named `Duplicatewords.java` (note the typo) with the following code:

```
1 //Q2. Write a program to find the number of occurrences of the duplicate words in a string and print them ?
2 import java.lang.*;
3 import java.util.*;
4 public class Duplicatewords {
5     public static void main(String[] args) {
6         Scanner sc=new Scanner(System.in);
7         System.out.println("enter string");
8         String s1=sc.nextLine();
9         String words[]=s1.split( regex: " ");
10        Arrays.sort(words);
11        for (int i = 0; i < words.length ; i++) {
12            int count=1;
```

The Run window shows the command executed: `/home/akaanksha/.sdkman/candidates/java/8.0.242-zulu/bin/java ...` and the input/output: `enter string`, `aa bb aa`, `aa`. The process finished with exit code 0.

Q3. Write a program to find the number of occurrences of a character in a string without using loop?



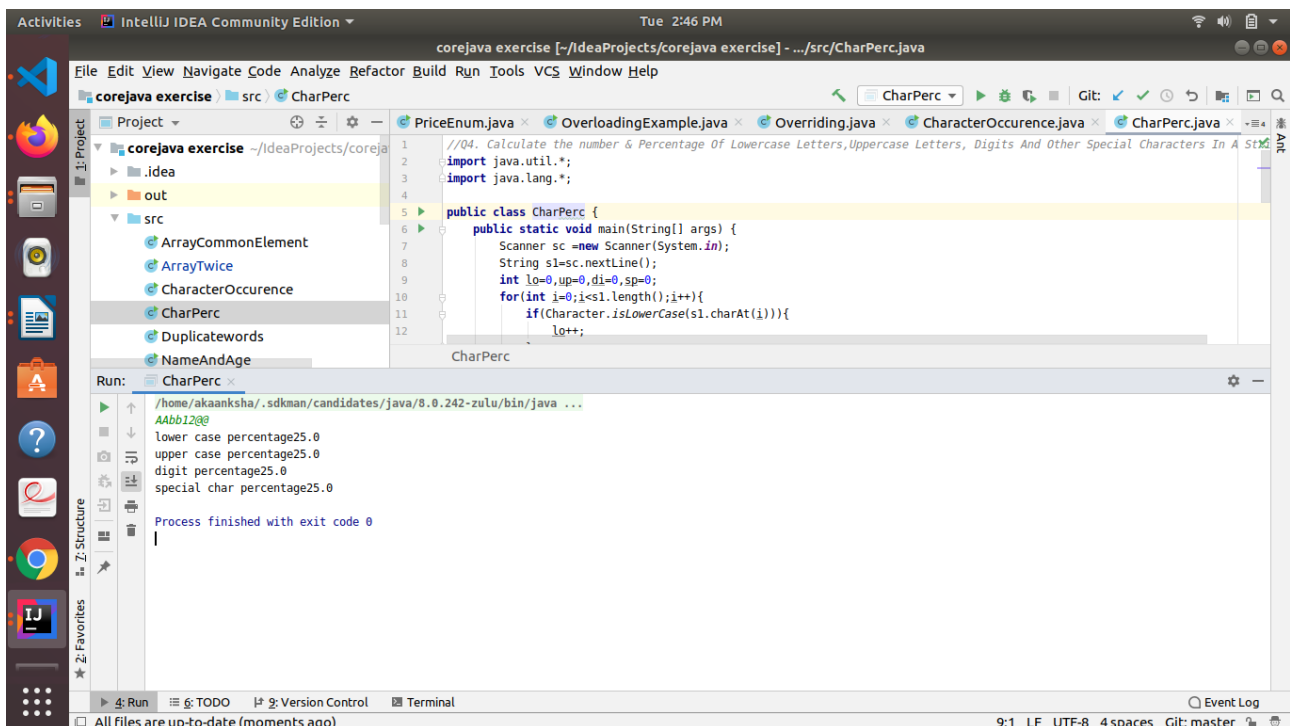
The screenshot shows the IntelliJ IDEA interface with the `CharacterOccurrence.java` file open. The code is as follows:

```
1 //Q3. Write a program to find the number of occurrences of a character in a string without using loop?
2 import java.util.*;
3 import java.lang.*;
4 public class CharacterOccurrence {
5     public static void main(String[] args) {
6         Scanner sc=new Scanner(System.in);
7         System.out.println("enter string");
8         String s1=sc.nextLine();
9
10        System.out.println("enter character");
11        String s2=sc.nextLine();
12    }
```

The Run window shows the following output:

```
enter string
ababbcb
enter character
a
occurrence of a is 2
Process finished with exit code 0
```

Q4. Calculate the number & Percentage Of Lowercase Letters,Uppercase Letters, Digits And Other Special Characters In A String



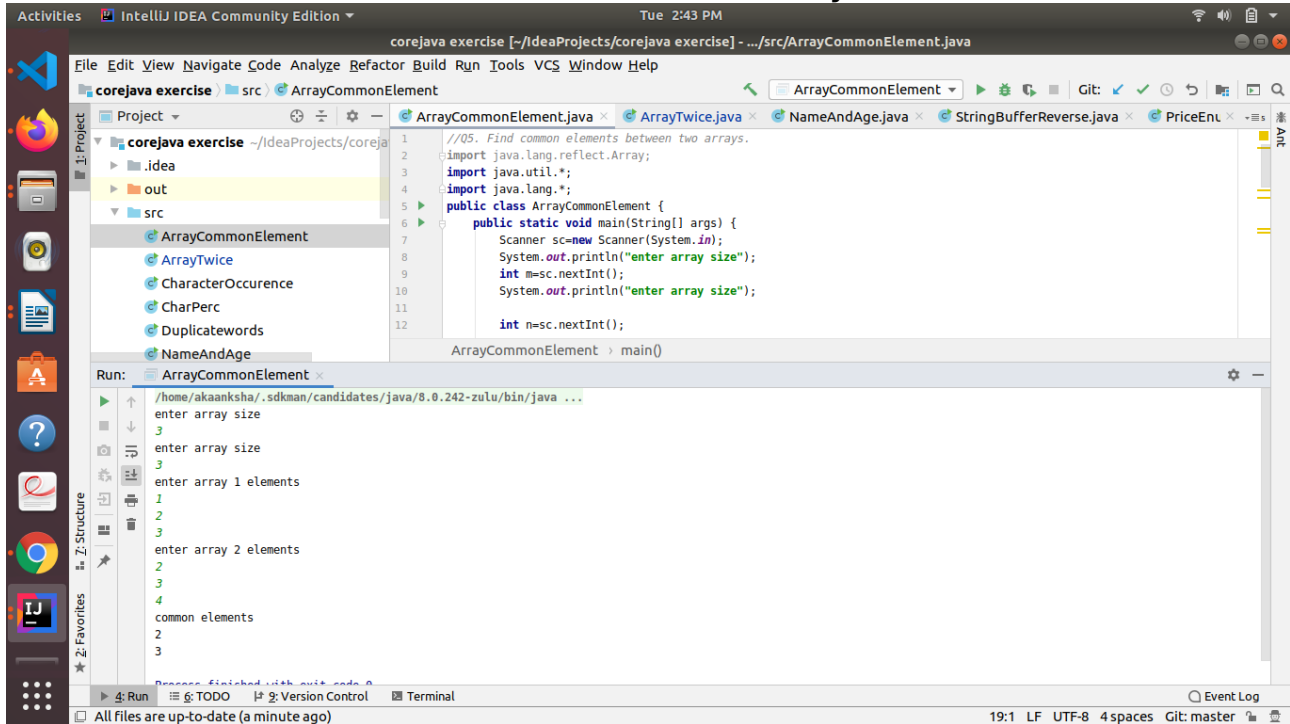
The screenshot shows the IntelliJ IDEA interface with the `CharPerc.java` file open. The code is as follows:

```
1 //Q4. Calculate the number & Percentage Of Lowercase Letters,Uppercase Letters, Digits And Other Special Characters In A String
2 import java.util.*;
3 import java.lang.*;
4 public class CharPerc {
5     public static void main(String[] args) {
6         Scanner sc =new Scanner(System.in);
7         String s1=sc.nextLine();
8         int lo=0,up=0,di=0,sp=0;
9         for(int i=0;i<s1.length();i++){
10             if(Character.isLowerCase(s1.charAt(i))){
11                 lo++;
12             }
```

The Run window shows the following output:

```
AAbb12@@
lower case percentage25.0
upper case percentage25.0
digit percentage25.0
special char percentage25.0
Process finished with exit code 0
```

Q5. Find common elements between two arrays.



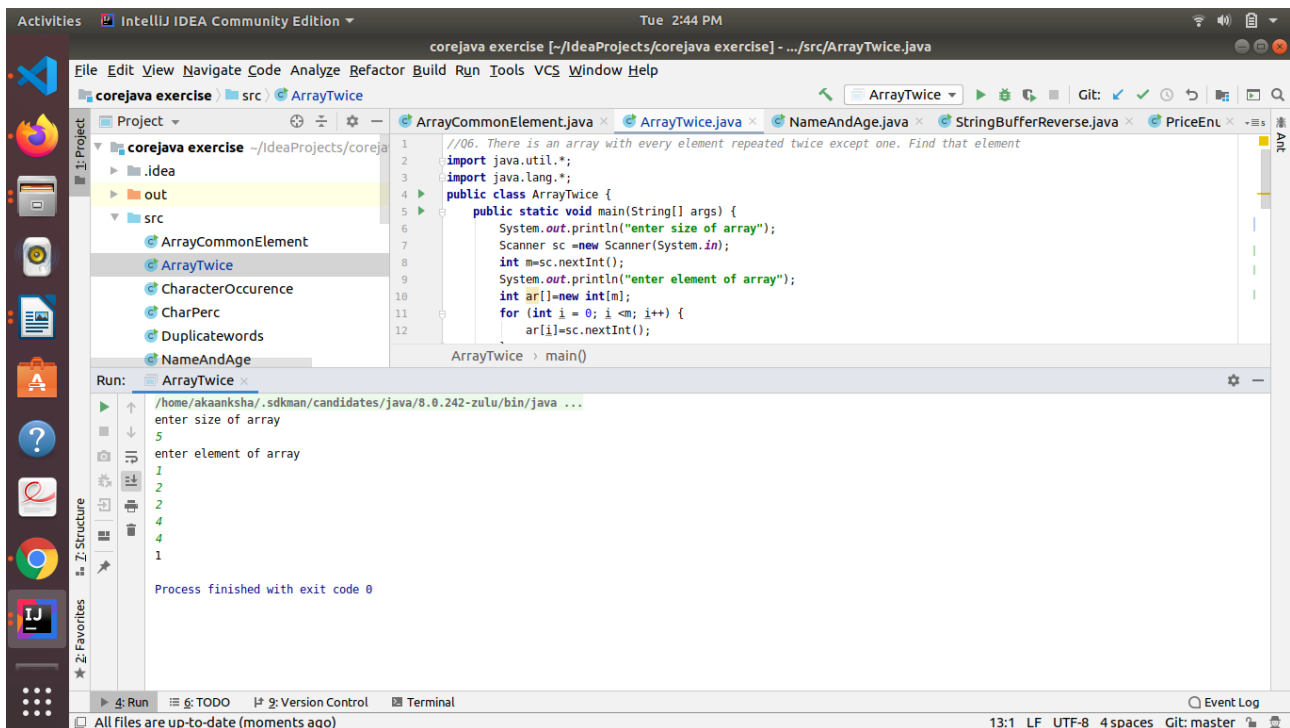
```
//Q5. Find common elements between two arrays.
import java.lang.reflect.Array;
import java.util.*;
import java.lang.*;

public class ArrayCommonElement {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter array size");
        int m=sc.nextInt();
        System.out.println("enter array size");
        int n=sc.nextInt();

        ArrayCommonElement > main()

Run: ArrayCommonElement x
/home/akaanksha/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
enter array size
3
enter array size
3
enter array 1 elements
1
2
3
enter array 2 elements
2
3
common elements
2
3
Process finished with exit code 0
```

Q6. There is an array with every element repeated twice except one. Find that element



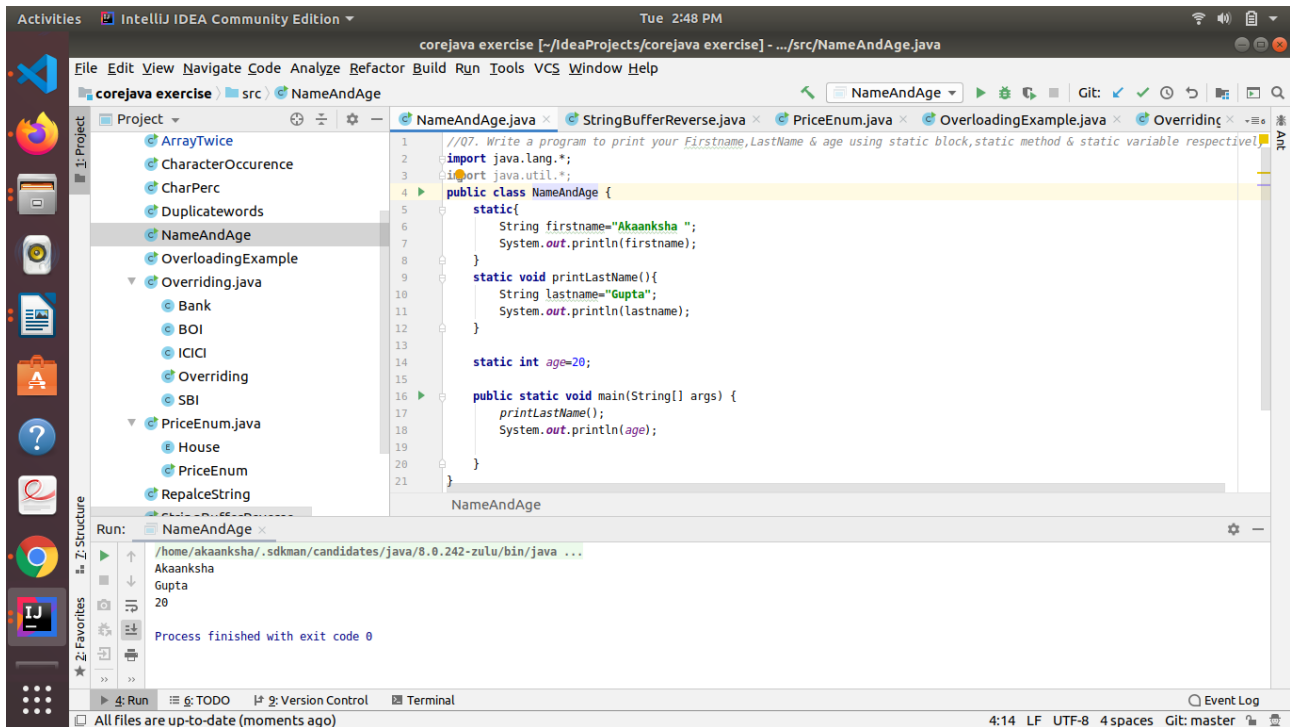
```
//Q6. There is an array with every element repeated twice except one. Find that element
import java.util.*;
import java.lang.*;

public class ArrayTwice {
    public static void main(String[] args) {
        System.out.println("enter size of array");
        Scanner sc =new Scanner(System.in);
        int m=sc.nextInt();
        System.out.println("enter element of array");
        int ar[]=new int[m];
        for (int i = 0; i <m; i++) {
            ar[i]=sc.nextInt();
        }

        ArrayTwice > main()

Run: ArrayTwice x
/home/akaanksha/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
enter size of array
5
enter element of array
1
2
2
4
4
1
Process finished with exit code 0
```

Q7. Write a program to print your Firstname,LastName & age using static block,static method & static variable respectively



```
1 //07. Write a program to print your Firstname,LastName & age using static block,static method & static variable respectively
2 import java.lang.*;
3 import java.util.*;
4 public class NameAndAge {
5     static{
6         String firstname="Akaanksha ";
7         System.out.println(firstname);
8     }
9     static void printLastName(){
10         String lastname="Gupta";
11         System.out.println(lastname);
12     }
13
14     static int age=20;
15
16     public static void main(String[] args) {
17         printLastName();
18         System.out.println(age);
19     }
20 }
21 }
```

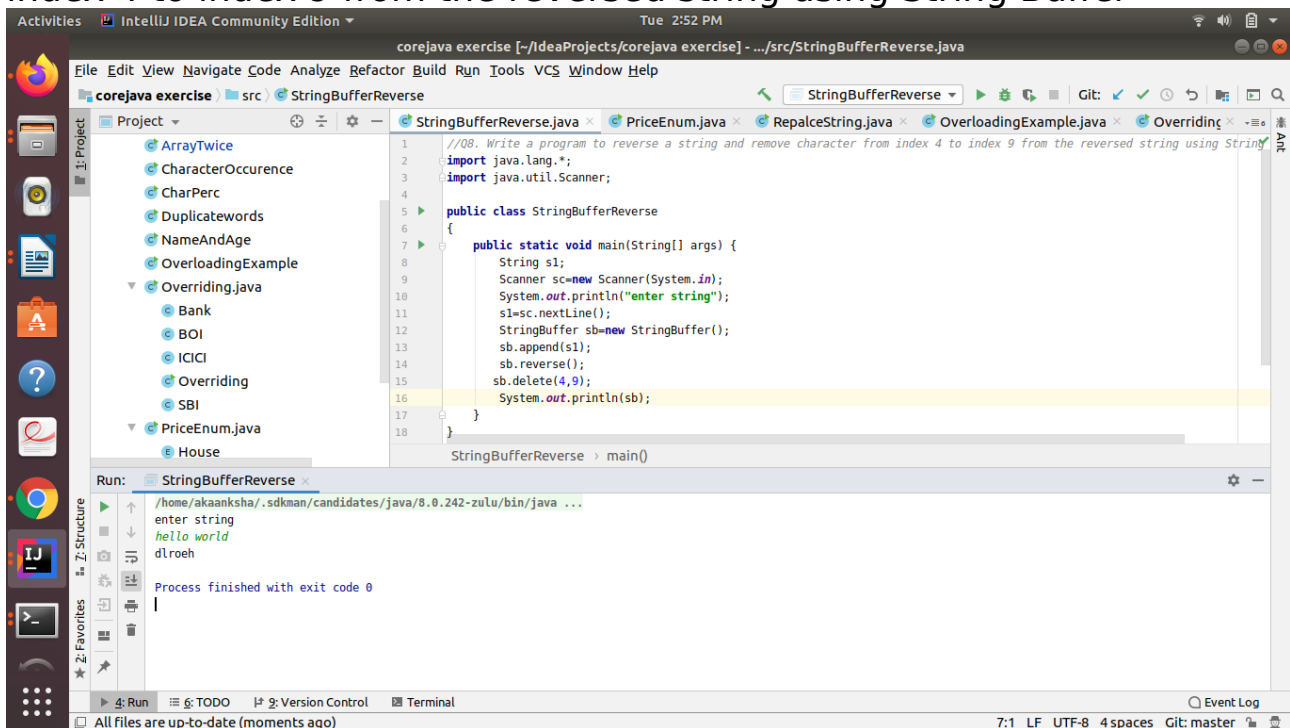
Run: NameAndAge

/home/akaanksha/.sdkman/candidates/java/8.0.242-zulu/bin/java ...

Akaanksha  
Gupta  
20

Process finished with exit code 0

Q8. Write a program to reverse a string and remove character from index 4 to index 9 from the reversed string using String Buffer



```
1 //08. Write a program to reverse a string and remove character from index 4 to index 9 from the reversed string using String
2 import java.lang.*;
3 import java.util.Scanner;
4
5 public class StringBufferReverse
6 {
7     public static void main(String[] args) {
8         String s1;
9         Scanner sc=new Scanner(System.in);
10        System.out.println("enter string");
11        s1=sc.nextLine();
12        StringBuffer sb=new StringBuffer();
13        sb.append(s1);
14        sb.reverse();
15        sb.delete(4,9);
16        System.out.println(sb);
17    }
18 }
```

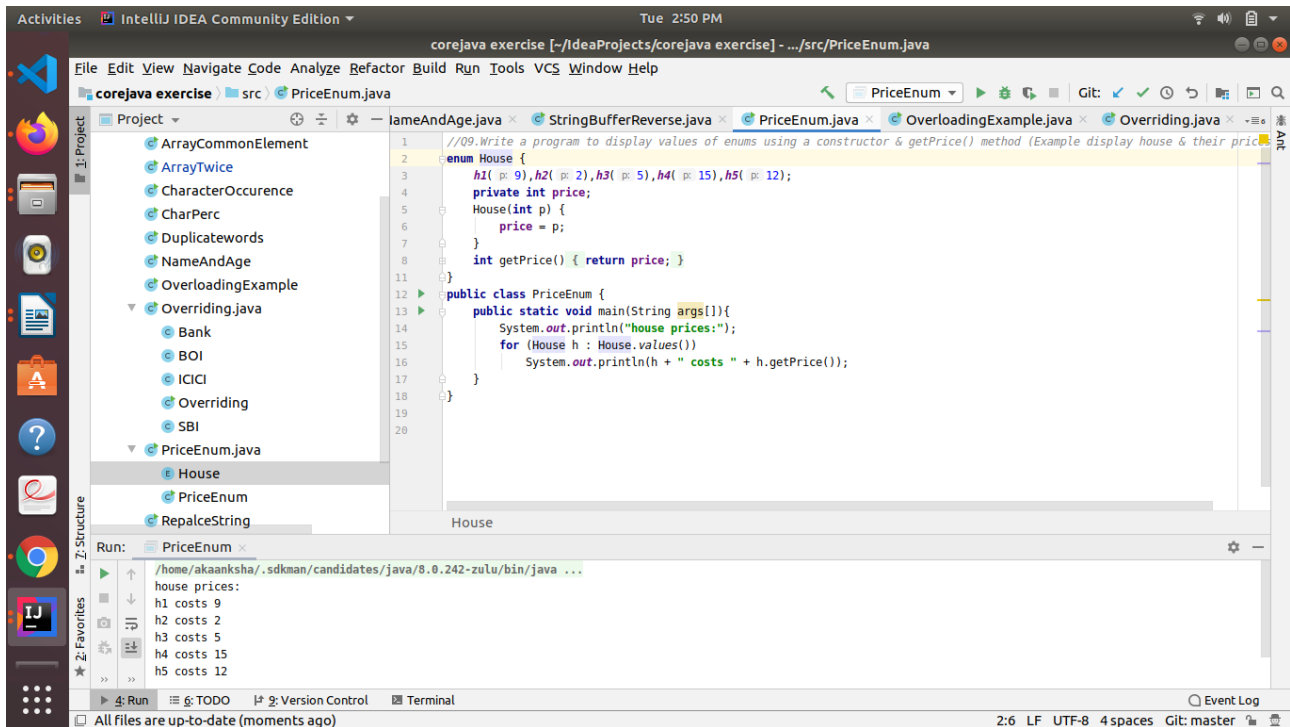
Run: StringBufferReverse

/home/akaanksha/.sdkman/candidates/java/8.0.242-zulu/bin/java ...

enter string  
hello world  
dlroeh

Process finished with exit code 0

Q9. Write a program to display values of enums using a constructor & getPrice() method (Example display house & their prices)



The screenshot shows the IntelliJ IDEA Community Edition interface. The main editor window displays the file `PriceEnum.java` with the following code:

```
1 //Q9. Write a program to display values of enums using a constructor & getPrice() method (Example display house & their prices)
2 enum House {
3     h1( 9), h2( 2), h3( 5), h4( 15), h5( 12);
4     private int price;
5     House(int p) {
6         price = p;
7     }
8     int getPrice() { return price; }
9 }
10
11 public class PriceEnum {
12     public static void main(String args[]) {
13         System.out.println("house prices:");
14         for (House h : House.values())
15             System.out.println(h + " costs " + h.getPrice());
16     }
17 }
18
19
20
```

The left sidebar shows the Project Structure view with the following hierarchy:

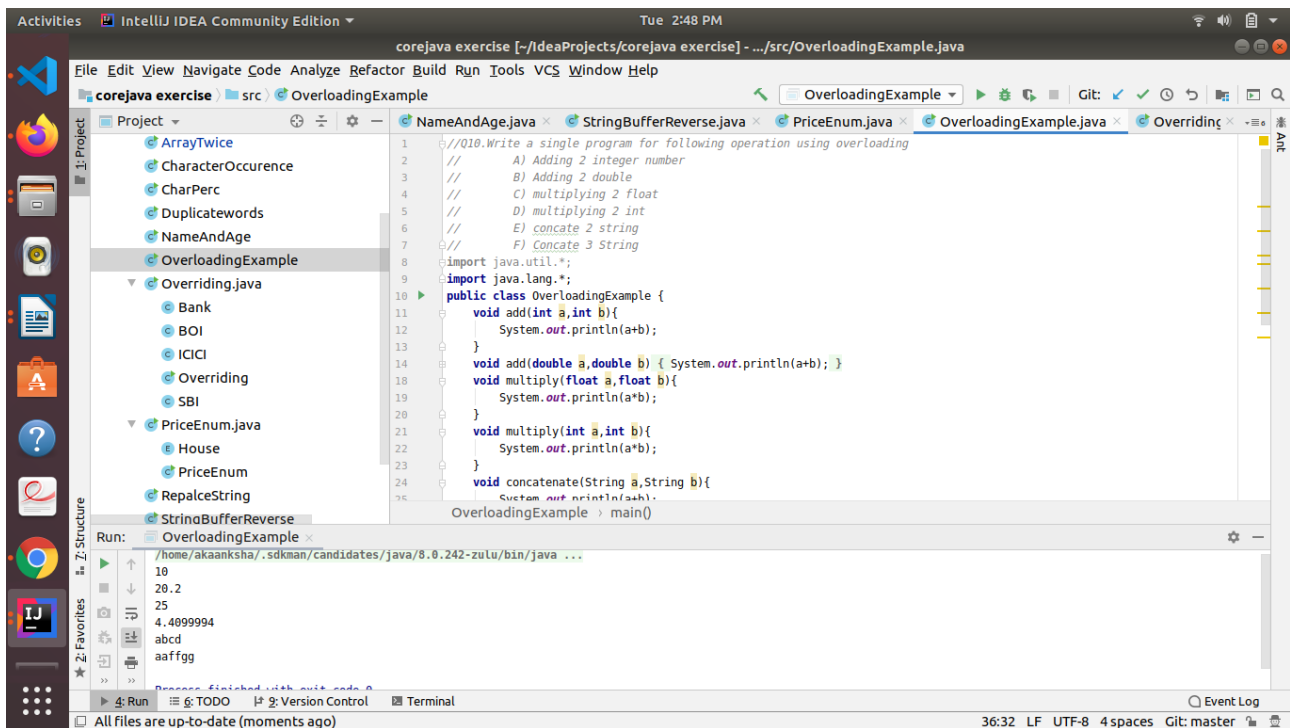
- corejava exercise
  - src
    - PriceEnum.java
      - House
      - PriceEnum
      - RepalceString

The bottom Run window shows the output of the program:

```
/home/akaanksha/.sdkman/candidates/java/8.0.242-zulu/bin/java ...
house prices:
h1 costs 9
h2 costs 2
h3 costs 5
h4 costs 15
h5 costs 12
```

Q10. Write a single program for following operation using overloading

- A) Adding 2 integer number
- B) Adding 2 double
- C) multiplying 2 float
- D) multiplying 2 int
- E) concat 2 string
- F) Concat 3 String



Q11. Create 3 sub class of bank SBI, BOI, ICICI all 4 should have method called `getDetails` which provide there specific details like rate of interest etc, print details of every banks

