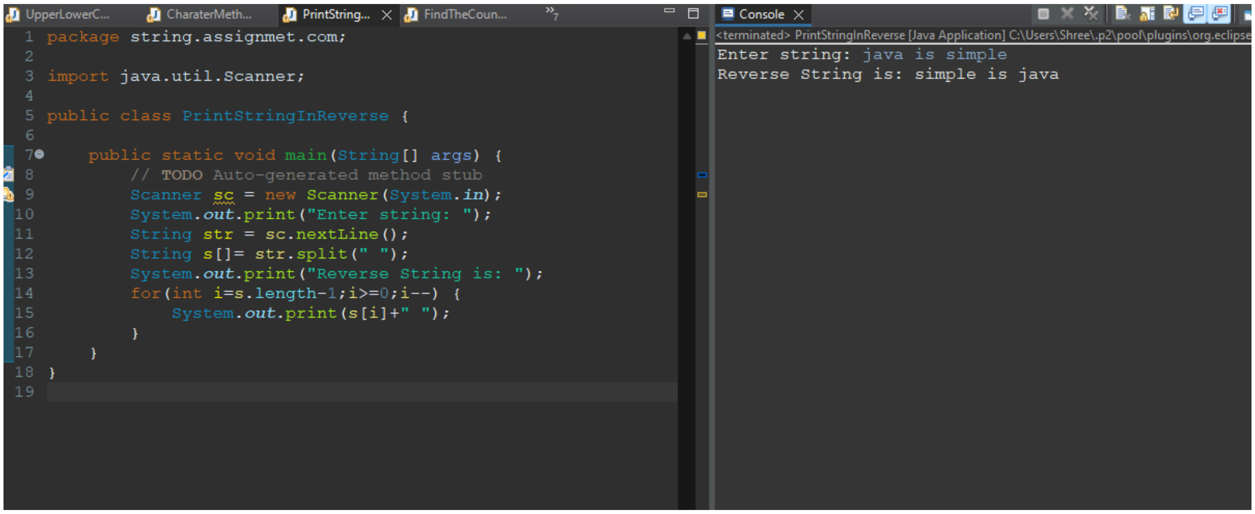
Assignment No:-29

Name:-Suryawanshi Sangramsingh Sambhaji

Batch: - Delta - DCA (Java) 2024   Date:-16/6/2024

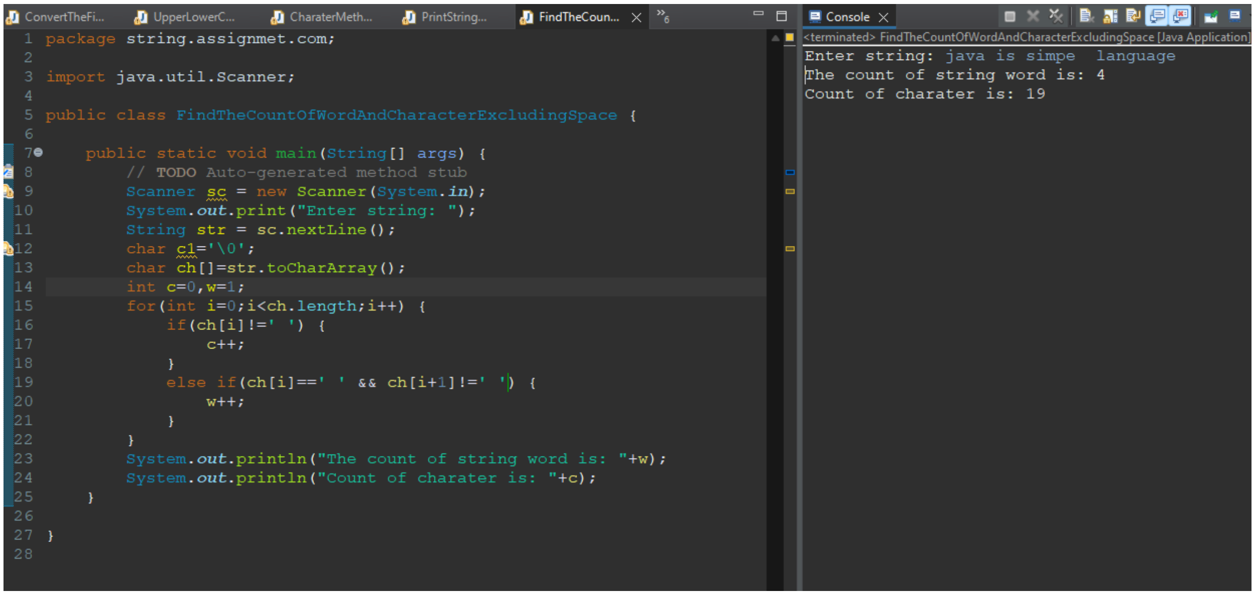
Q1.Wap enter a string and print it in a reverse order word by word.



```java
package string.assignmet.com;

import java.util.Scanner;

public class PrintStringInReverse {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string: ");
        String str = sc.nextLine();
        String s[]= str.split(" ");
        System.out.print("Reverse String is: ");
        for(int i=s.length-1;i>=0;i--) {
            System.out.print(s[i]+" ");
        }
    }
}
```

```
<terminated> PrintStringInReverse [Java Application] C:\Users\Shree\.p2\pool\plugins\org.eclipse
Enter string: java is simple
Reverse String is: simple is java
```

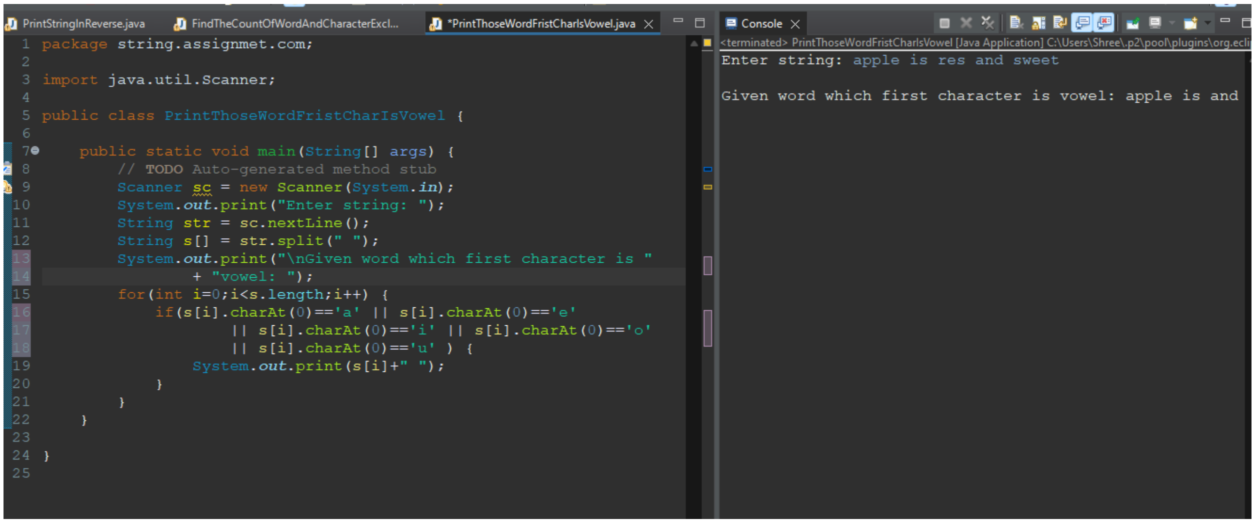
Q2.Wap enter a string and find the count of word and character(excluding space).



```java
package string.assignmet.com;

import java.util.Scanner;

public class FindTheCountOfWordAndCharacterExcludingSpace {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string: ");
        String str = sc.nextLine();
        char c1='\0';
        char ch[]=str.toCharArray();
        int c=0,w=1;
        for(int i=0;i<ch.length;i++) {
            if(ch[i]!=' ') {
                c++;
            }
            else if(ch[i]==' ' && ch[i+1]!=' ') {
                w++;
            }
        }
        System.out.println("The count of string word is: "+w);
        System.out.println("Count of charater is: "+c);
    }

}
```

```
<terminated> FindTheCountOfWordAndCharacterExcludingSpace [Java Application]
Enter string: java is simpe  language
The count of string word is: 4
Count of charater is: 19
```

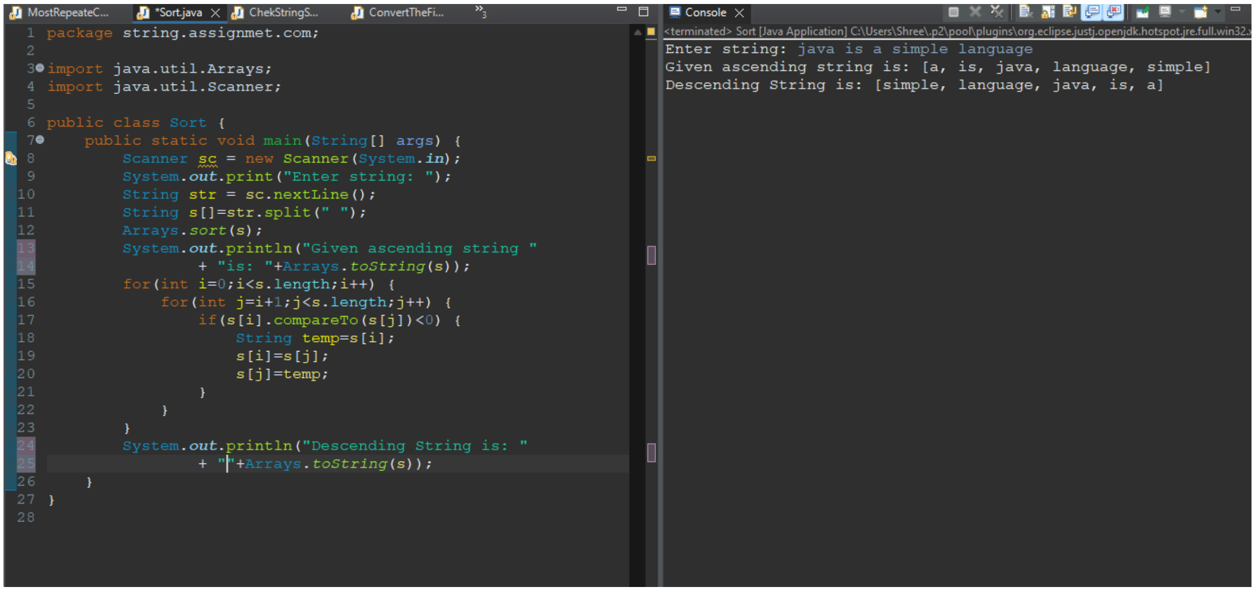
Q3.Wap input a string and print only those word which first character is vowel.


PrintStringInReverse.java
FindTheCountOfWordAndCharacterExcl...
*PrintThoseWordFristCharIsVowel.java
Console
<terminated> PrintThoseWordFristCharIsVowel [Java Application] C:\Users\Shree\.p2\pool\plugins\org.ecli

```java
package string.assignmet.com;

import java.util.Scanner;

public class PrintThoseWordFristCharIsVowel {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string: ");
        String str = sc.nextLine();
        String s[] = str.split(" ");
        System.out.print("\nGiven word which first character is "
                + "vowel: ");
        for(int i=0;i<s.length;i++) {
            if(s[i].charAt(0)=='a' || s[i].charAt(0)=='e'
                    || s[i].charAt(0)=='i' || s[i].charAt(0)=='o'
                    || s[i].charAt(0)=='u' ) {
                System.out.print(s[i]+" ");
            }
        }
    }

}
```

```
Enter string: apple is res and sweet

Given word which first character is vowel: apple is and
```

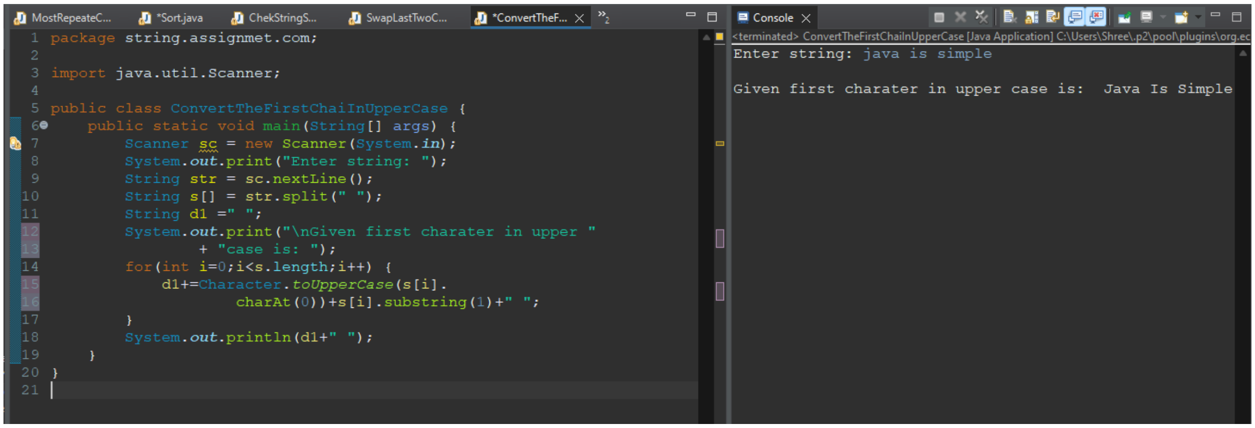
Q4.Wap enter a string and sort each word of string in ascending and descending order by the length of each word.


MostRepeateC...
*Sort.java
ChekStringS...
ConvertTheFi...
»3
Console
<terminated> Sort [Java Application] C:\Users\Shree\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x

```java
package string.assignmet.com;

import java.util.Arrays;
import java.util.Scanner;

public class Sort {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string: ");
        String str = sc.nextLine();
        String s[]=str.split(" ");
        Arrays.sort(s);
        System.out.println("Given ascending string "
                + "is: "+Arrays.toString(s));
        for(int i=0;i<s.length;i++) {
            for(int j=i+1;j<s.length;j++) {
                if(s[i].compareTo(s[j])<0) {
                    String temp=s[i];
                    s[i]=s[j];
                    s[j]=temp;
                }
            }
        }
        System.out.println("Descending String is: "
                + ""+Arrays.toString(s));
    }
}
```

```
Enter string: java is a simple language
Given ascending string is: [a, is, java, language, simple]
Descending String is: [simple, language, java, is, a]
```

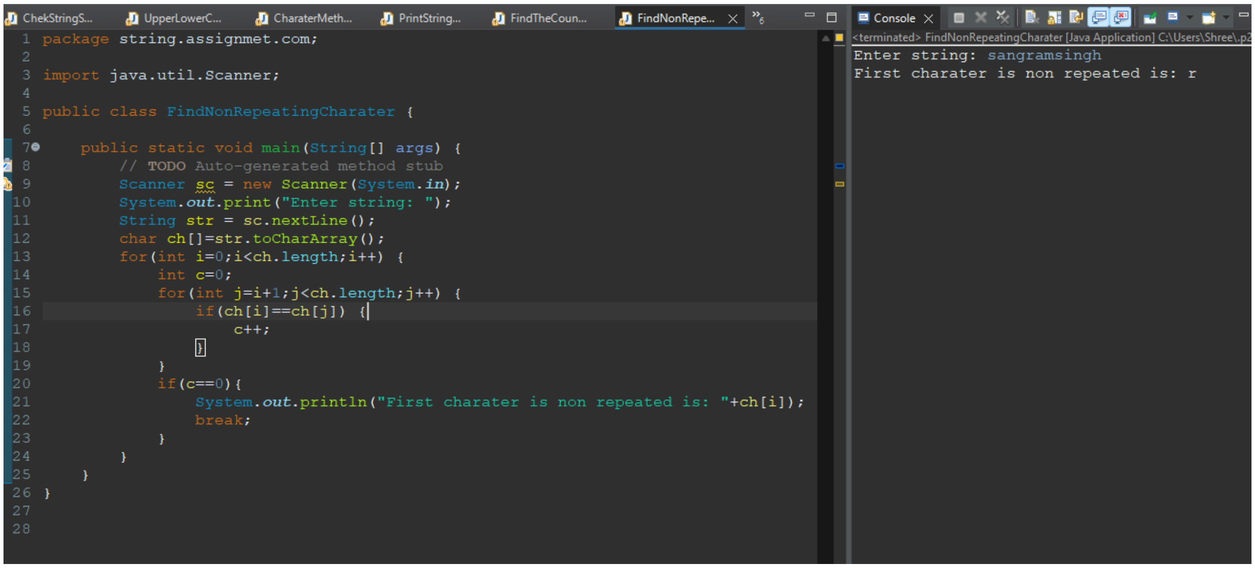
Q5.Wap enter a string in lowercase now you have to convert every first character of the word in upper case.



```java
package string.assignmet.com;

import java.util.Scanner;

public class ConvertTheFirstChaiInUpperCase {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string: ");
        String str = sc.nextLine();
        String s[] = str.split(" ");
        String d1 =" ";
        System.out.print("\nGiven first charater in upper "
                + "case is: ");
        for(int i=0;i<s.length;i++) {
            d1+=Character.toUpperCase(s[i].
                    charAt(0))+s[i].substring(1)+" ";
        }
        System.out.println(d1+" ");
    }
}
```

```
<terminated> ConvertTheFirstChaiInUpperCase [Java Application] C:\Users\Shree\.p2\pool\plugins\org.ec
Enter string: java is simple

Given first charater in upper case is:  Java Is Simple
```

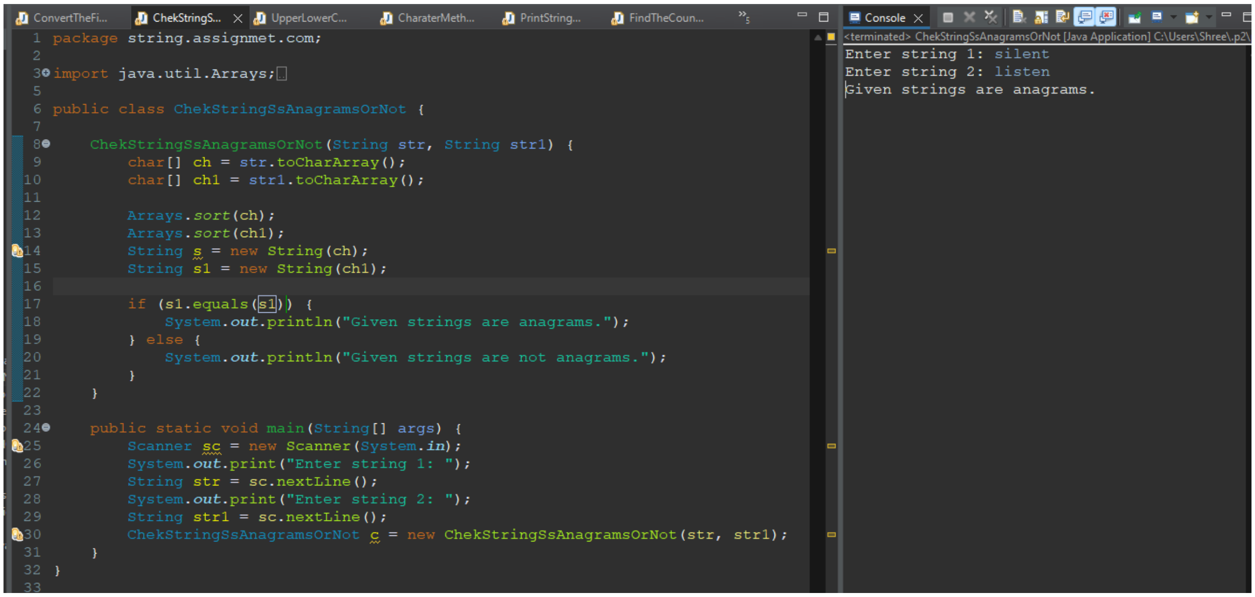
Q6.Wap enter a string and print first non-repeating character using class and object.



```java
package string.assignmet.com;

import java.util.Scanner;

public class FindNonRepeatingCharater {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string: ");
        String str = sc.nextLine();
        char ch[]=str.toCharArray();
        for(int i=0;i<ch.length;i++) {
            int c=0;
            for(int j=i+1;j<ch.length;j++) {
                if(ch[i]==ch[j]) {
                    c++;
                }
            }
            if(c==0){
                System.out.println("First charater is non repeated is: "+ch[i]);
                break;
            }
        }
    }
}
```

```
<terminated> FindNonRepeatingCharater [Java Application] C:\Users\Shree\.p2
Enter string: sangramsingh
First charater is non repeated is: r
```

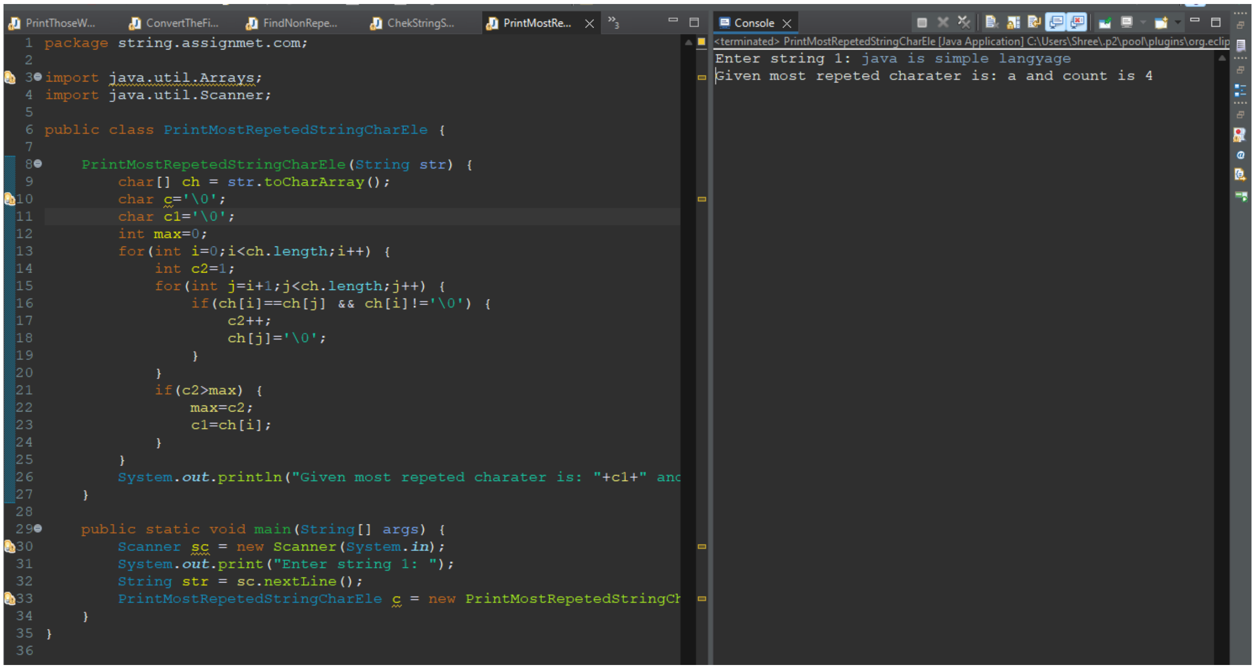
Q7.Wap enter a string and check it is anagram or not constructor and using class and object.



```
package string.assignmet.com;

import java.util.Arrays;

public class ChekStringSsAnagramsOrNot {

    ChekStringSsAnagramsOrNot(String str, String str1) {
        char[] ch = str.toCharArray();
        char[] ch1 = str1.toCharArray();

        Arrays.sort(ch);
        Arrays.sort(ch1);
        String s = new String(ch);
        String s1 = new String(ch1);

        if (s1.equals(s1)) {
            System.out.println("Given strings are anagrams.");
        } else {
            System.out.println("Given strings are not anagrams.");
        }
    }

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string 1: ");
        String str = sc.nextLine();
        System.out.print("Enter string 2: ");
        String str1 = sc.nextLine();
        ChekStringSsAnagramsOrNot c = new ChekStringSsAnagramsOrNot(str, str1);
    }
}
```

```
<terminated> ChekStringSsAnagramsOrNot [Java Application] C:\Users\Shree\.p2\
Enter string 1: silent
Enter string 2: listen
Given strings are anagrams.
```

Q8.Wap enter a string and print most repeated character in string.



```
package string.assignmet.com;

import java.util.Arrays;
import java.util.Scanner;

public class PrintMostRepetedStringCharEle {

    PrintMostRepetedStringCharEle(String str) {
        char[] ch = str.toCharArray();
        char c='\0';
        char c1='\0';
        int max=0;
        for(int i=0;i<ch.length;i++) {
            int c2=1;
            for(int j=i+1;j<ch.length;j++) {
                if(ch[i]==ch[j] && ch[i]!='\0') {
                    c2++;
                    ch[j]='\0';
                }
            }
            if(c2>max) {
                max=c2;
                c1=ch[i];
            }
        }
        System.out.println("Given most repeted charater is: "+c1+" anc
    }

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string 1: ");
        String str = sc.nextLine();
        PrintMostRepetedStringCharEle c = new PrintMostRepetedStringCh
    }
}
```

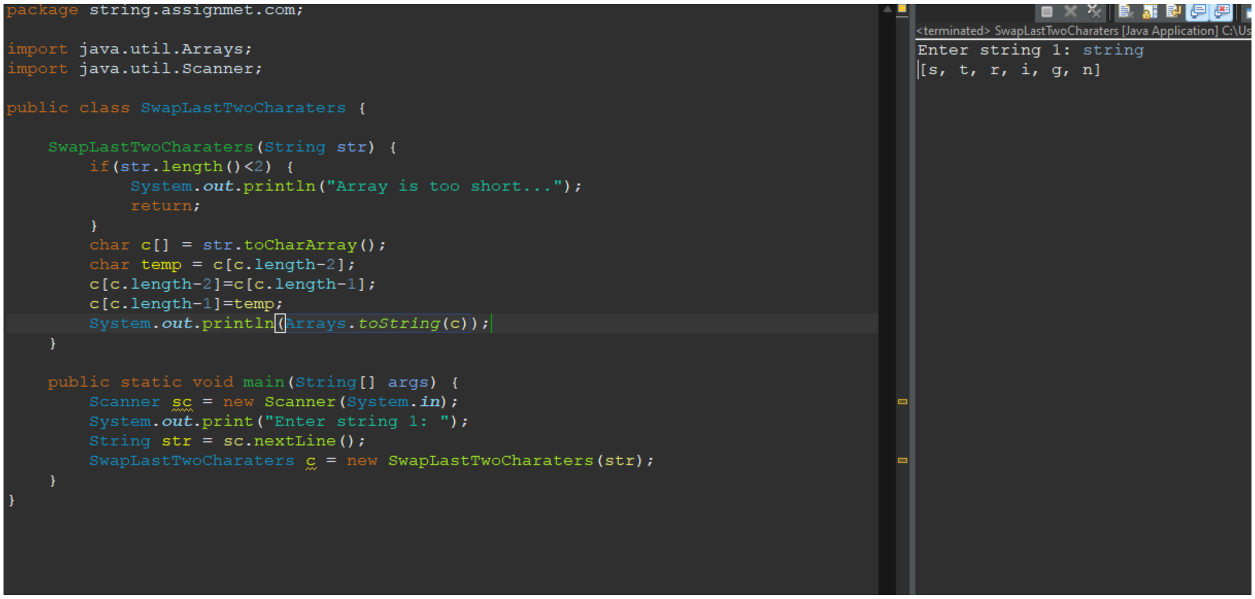
```
<terminated> PrintMostRepetedStringCharEle [Java Application] C:\Users\Shree\.p2\pool\plugins\org.eclip
Enter string 1: java is simple langyage
Given most repeted charater is: a and count is 4
```

Q9. Write a Java program to create a new string from a given string swapping the last two Characters of the given string. The length of the given string must be two or more.

Sample Output:

The given strings is: string

The string after swap last two characters are: strign

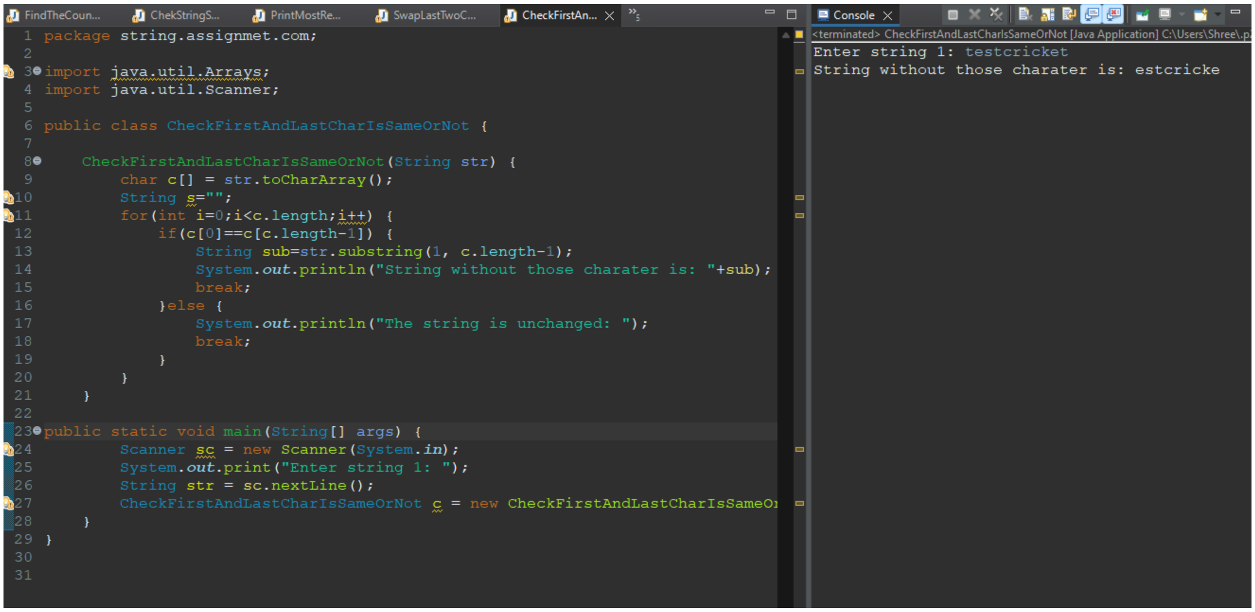


```java
package string.assignmet.com;

import java.util.Arrays;
import java.util.Scanner;

public class SwapLastTwoCharaters {

    SwapLastTwoCharaters(String str) {
        if(str.length()<2) {
            System.out.println("Array is too short...");
            return;
        }
        char c[] = str.toCharArray();
        char temp = c[c.length-2];
        c[c.length-2]=c[c.length-1];
        c[c.length-1]=temp;
        System.out.println(Arrays.toString(c));
    }

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string 1: ");
        String str = sc.nextLine();
        SwapLastTwoCharaters c = new SwapLastTwoCharaters(str);
    }
}
```

```
Enter string 1: string
[s, t, r, i, g, n]
```

Q10. Write a Java program to read a given string and if the first or last characters are same

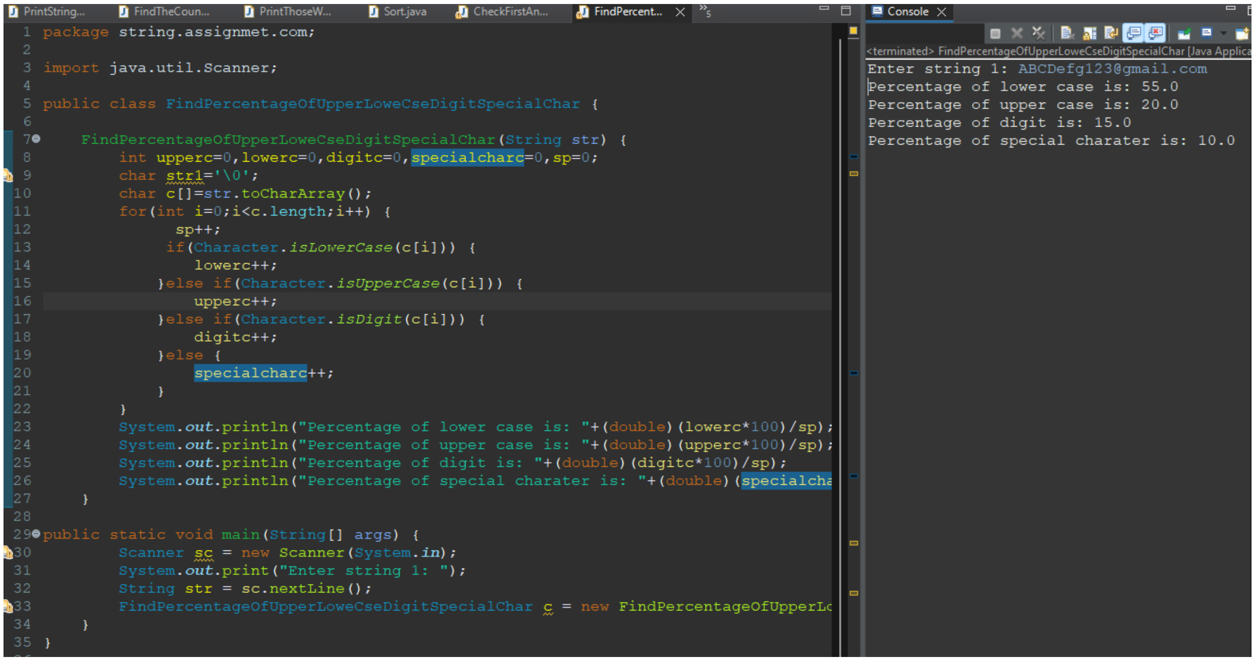
Return the string without those characters otherwise return the string unchanged


FindTheCoun...
ChekStringS...
PrintMostRe...
SwapLastTwoC...
CheckFirstAn...
Console
<terminated> CheckFirstAndLastCharIsSameOrNot [Java Application] C:\Users\Shree\.p

```java
package string.assignmet.com;

import java.util.Arrays;
import java.util.Scanner;

public class CheckFirstAndLastCharIsSameOrNot {

    CheckFirstAndLastCharIsSameOrNot(String str) {
        char c[] = str.toCharArray();
        String s="";
        for(int i=0;i<c.length;i++) {
            if(c[0]==c[c.length-1]) {
                String sub=str.substring(1, c.length-1);
                System.out.println("String without those charater is: "+sub);
                break;
            }else {
                System.out.println("The string is unchanged: ");
                break;
            }
        }
    }

public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string 1: ");
        String str = sc.nextLine();
        CheckFirstAndLastCharIsSameOrNot c = new CheckFirstAndLastCharIsSameOr
    }
}
```

```
Enter string 1: testcricket
String without those charater is: estcricke
```

Q11.Wap enter a string and find the percentage of uppercase, lowercase, digits and special characters in a string.



```java
package string.assignmet.com;

import java.util.Scanner;

public class FindPercentageOfUpperLoweCseDigitSpecialChar {

    FindPercentageOfUpperLoweCseDigitSpecialChar(String str) {
        int upperc=0,lowerc=0,digitc=0,specialcharc=0,sp=0;
        char str1='\0';
        char c[]=str.toCharArray();
        for(int i=0;i<c.length;i++) {
             sp++;
            if(Character.isLowerCase(c[i])) {
               lowerc++;
           }else if(Character.isUpperCase(c[i])) {
               upperc++;
           }else if(Character.isDigit(c[i])) {
               digitc++;
           }else {
               specialcharc++;
           }
        }
        System.out.println("Percentage of lower case is: "+(double)(lowerc*100)/sp);
        System.out.println("Percentage of upper case is: "+(double)(upperc*100)/sp);
        System.out.println("Percentage of digit is: "+(double)(digitc*100)/sp);
        System.out.println("Percentage of special charater is: "+(double)(specialcha
    }

public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string 1: ");
        String str = sc.nextLine();
        FindPercentageOfUpperLoweCseDigitSpecialChar c = new FindPercentageOfUpperLo
    }
}
```

```
Enter string 1: ABCDefg123@gmail.com
Percentage of lower case is: 55.0
Percentage of upper case is: 20.0
Percentage of digit is: 15.0
Percentage of special charater is: 10.0
```

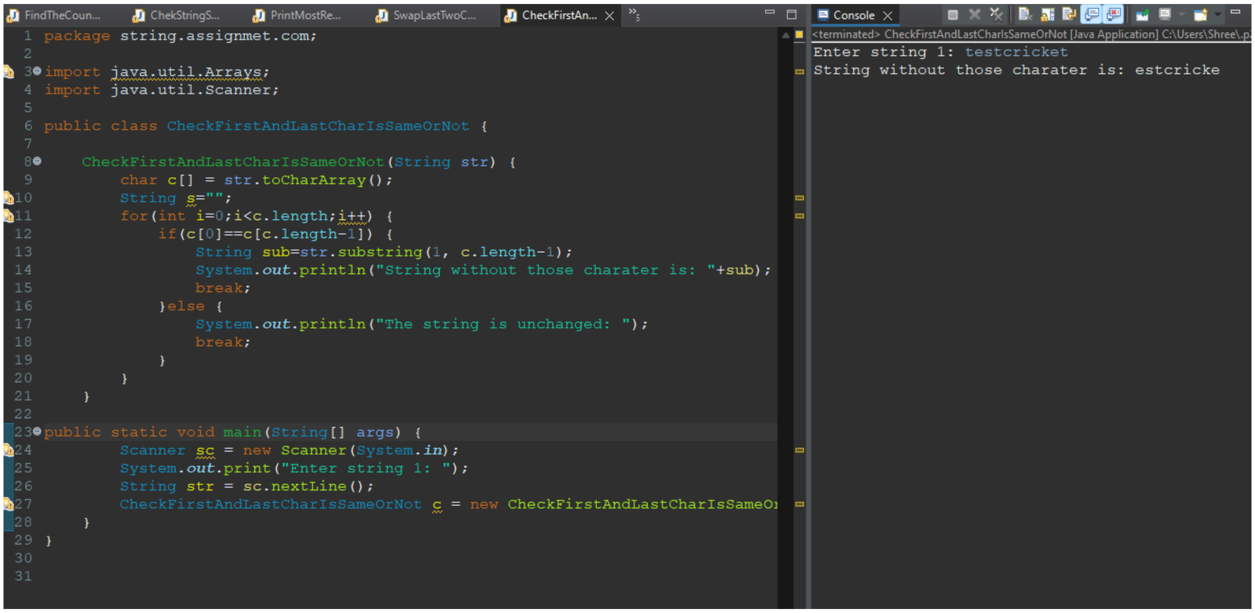
Q12. Write a Java program to read a given string and if the first or last characters are same

return the string without those characters otherwise return the string unchanged.

Sample Output:

The given strings is: testcricket

The new string is: estcricke


FindTheCoun...
ChekStringS...
PrintMostRe...
SwapLastTwoC...
CheckFirstAn...
Console
<terminated> CheckFirstAndLastCharIsSameOrNot [Java Application] C:\Users\Shree\.p

```java
package string.assignmet.com;

import java.util.Arrays;
import java.util.Scanner;

public class CheckFirstAndLastCharIsSameOrNot {

    CheckFirstAndLastCharIsSameOrNot(String str) {
        char c[] = str.toCharArray();
        String s="";
        for(int i=0;i<c.length;i++) {
            if(c[0]==c[c.length-1]) {
                String sub=str.substring(1, c.length-1);
                System.out.println("String without those charater is: "+sub);
                break;
            }else {
                System.out.println("The string is unchanged: ");
                break;
            }
        }
    }

public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string 1: ");
        String str = sc.nextLine();
        CheckFirstAndLastCharIsSameOrNot c = new CheckFirstAndLastCharIsSameOr
    }
}
```

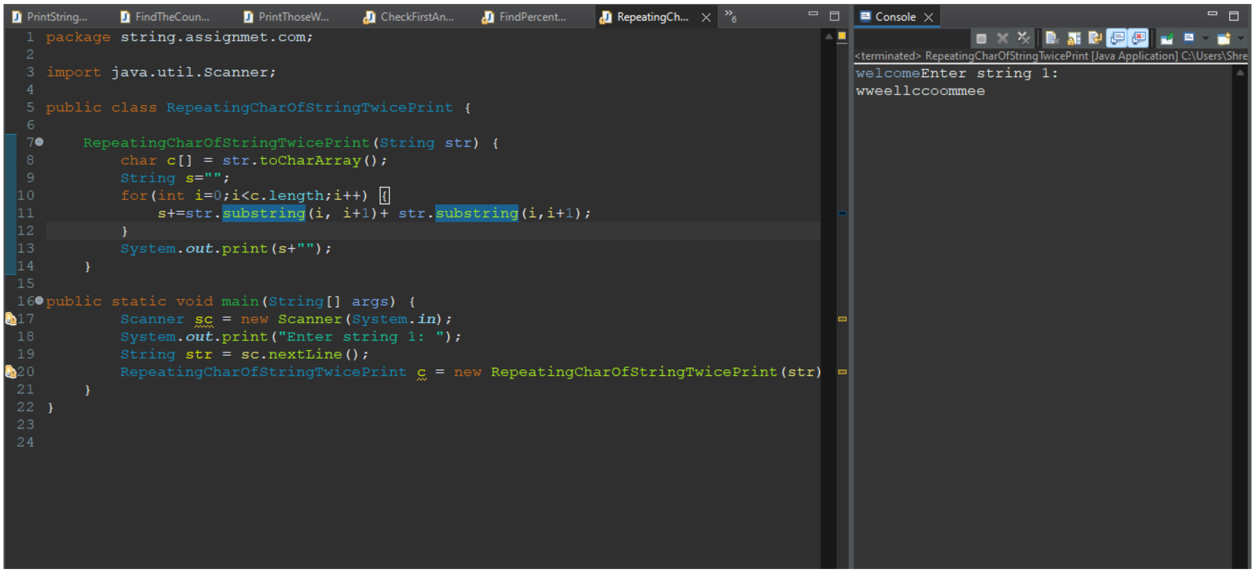
```
Enter string 1: testcricket
String without those charater is: estcricke
```

Q13. Write a Java program to create a new string repeating every character twice of a given string.

Sample Output:

The given string is: welcome

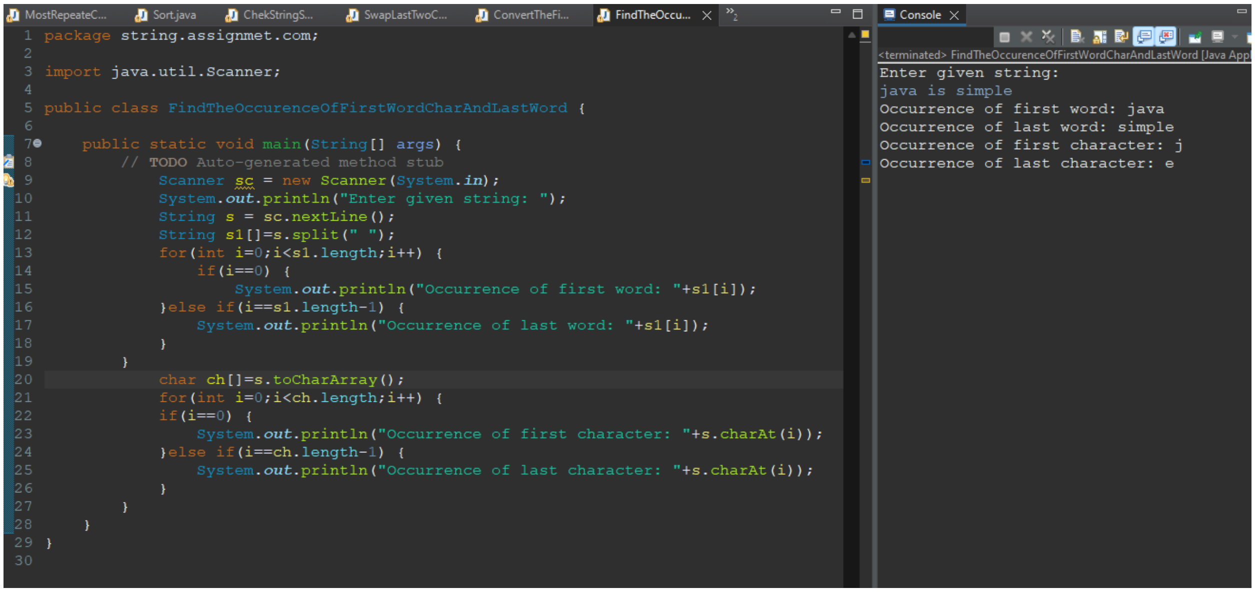
The new string is: wweellccoomme



```java
package string.assignmet.com;

import java.util.Scanner;

public class RepeatingCharOfStringTwicePrint {

    RepeatingCharOfStringTwicePrint(String str) {
        char c[] = str.toCharArray();
        String s="";
        for(int i=0;i<c.length;i++) {
            s+=str.substring(i, i+1)+ str.substring(i,i+1);
        }
        System.out.print(s+"");
    }

public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter string 1: ");
        String str = sc.nextLine();
        RepeatingCharOfStringTwicePrint c = new RepeatingCharOfStringTwicePrint(str)
    }
}
```

```
<terminated> RepeatingCharOfStringTwicePrint [Java Application] C:\Users\Shre
welcomeEnter string 1:
wweellccoommee
```

Q14.Wap enter a string and find the occurrence of first word, first character, last word, last character in string by using class and object.



```java
package string.assignmet.com;

import java.util.Scanner;

public class FindTheOccurenceOfFirstWordCharAndLastWord {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter given string: ");
            String s = sc.nextLine();
            String s1[]=s.split(" ");
            for(int i=0;i<s1.length;i++) {
                if(i==0) {
                    System.out.println("Occurrence of first word: "+s1[i]);
            }else if(i==s1.length-1) {
                System.out.println("Occurrence of last word: "+s1[i]);
            }
        }
            char ch[]=s.toCharArray();
            for(int i=0;i<ch.length;i++) {
            if(i==0) {
                System.out.println("Occurrence of first character: "+s.charAt(i));
            }else if(i==ch.length-1) {
                System.out.println("Occurrence of last character: "+s.charAt(i));
            }
        }
    }
}
```

```
<terminated> FindTheOccurenceOfFirstWordCharAndLastWord [Java Appl
Enter given string:
java is simple
Occurrence of first word: java
Occurrence of last word: simple
Occurrence of first character: j
Occurrence of last character: e
```