

# Strings in java

## Assignment-13

1.WAP (write a program ) to remove Duplicates from a String.(Take any String example with duplicates Character).

Ans:

```
package Assignments_Only;

import java.util.Scanner;

public class First_program {

    public static void main(String...args) {

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the String:");
        String s1 =sc.nextLine();

        String s2="";

        for(int i=0;i<s1.length();i++){

            char s3=s1.charAt(i);

            if(s2.indexOf(s3)==-1){

                s2=s2+s3;

            }

        }

        System.out.println("Before Removing Duplicate character:"+s1);
        System.out.println("After Removing Duplicate character:"+s2);

    }

}
```

**output:**

**Enter the String :**

**madam**

**Before Removing Duplicate character:madam**

**After Removing Duplicate character:mad**

**Process finished with exit code 0**

## 2.WAP to print Duplicate characters from the String.

Ans:

```
package Assignments_Only;

import java.util.Scanner;

public class Second_program {

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the String:");
        String s1 = sc.nextLine();

        String s2="";
        String s3="";

        for(int i=0;i<s1.length();i++){

            char s4=s1.charAt(i);

            if( s2.indexOf(s4)==-1){

                s2=s2+s4;

            }else {

                s3=s3+s4;

            }

        }

        System.out.println("Before Removing Duplicate
character:"+s1);
        System.out.println("After Removing Duplicate
character:"+s3);
```

```
}  
}
```

**Output:**

**Enter the String:**

**madam**

**Before Removing Duplicate character:madam**

**After Removing Duplicate character:am**

**Process finished with exit code 0**

**3.WAP to check if “2552” is palindrome or not .**

**Ans;**

```
package Assignments_Only;  
  
import java.util.Scanner;  
  
public class Third_program {  
  
    public static void main(String[] args) {  
  
        Scanner sc=new Scanner(System.in);  
  
        System.out.println("Enter the String number:");  
        String s1=sc.nextLine();  
        String s2="";  
  
        char arrs1[]=s1.toCharArray();  
  
        for(int i= arrs1.length-1;i>=0;i--){  
  
            s2=s2+arrs1[i];  
  
        }  
  
        if(s1.equals(s2)){  
  
            System.out.println("Given String number is a  
palindrome");  
  
        }else{  
  
            System.out.println("Given String number is not a  
palindrome");  
  
        }  
    }  
}
```

```
    }  
    }  
}
```

**Output:**

**Enter the String number:**

**2552**

**Given String number is a palindrome**

**Process finished with exit code 0**

**4.WAP to count the number of consonants, vowels, special characters in a String**

.

**Ans:**

```
package Assignments_Only;  
  
import java.util.Scanner;  
  
public class Fourth_program {  
  
    public static void main(String[] args) {  
  
        Scanner sc=new Scanner(System.in);  
  
        System.out.println("Enter the value of String:");  
        String s1=sc.nextLine();  
  
        String s2 ="AEIOUaeiou";  
  
        int consonants=0;  
        int vowels=0;  
        int specialChar=0;  
  
        for(int i=0;i<s1.length();i++){  
  
            char c1=s1.charAt(i);  
  
            if(Character.isLetter(c1)){  
  
                if(s2.indexOf(c1)!=-1){  
  
                    vowels++;    // vowels=vowels+1;  
  
                }  
  
            }  
  
        }  
  
    }  
}
```

```

        } else {
            consonants++; // consonants=consonants+1;
        }

        } else {
            specialChar++;
        }
    }

    System.out.println("The vowels letters is: "+vowels);
    System.out.println("The consonants letters is:
"+consonants);
    System.out.println("The specialCharacters letters is:
"+specialChar);
}
}

```

### Output:

Enter the value of String:

bhuw@nchaudh@ry

The vowels letters is: 3

The consonants letters is: 10

The specialCharacters letters is: 2

Process finished with exit code 0...

## 5.WAP to implements Anagram checking least inbuilt methods being used.

Ans:

```

package Assignments_Only;

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

public class Fifth_program {

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the value of String s1:");
        String s1=sc.nextLine();
    }
}

```

```

        System.out.println("Enter the value of String s2:");
        String s2=sc.nextLine();

        s1=s1.replace(" ","");
        s2=s2.replace(" ","");

        s1=s1.toLowerCase();
        s2=s2.toLowerCase();

        char [] arrs1=s1.toCharArray();
        char [] arrs2=s1.toCharArray();

        Arrays.sort(arrs1);
        Arrays.sort(arrs2);

        if(Arrays.equals(arrs1,arrs2)){

            System.out.println(" Given String value is
Anagram:");
        }else{

            System.out.println("Given String value is not a
Anagram:");
        }
    }
}

```

### Output: -1

**Enter the value of String s1:**

**the classroom**

**Enter the value of String s2:**

**school master**

**acehlmoorsst**

**acehlmoorsst**

**Given String value is Anagram:**

**Process finished with exit code 0**

### Output-2

**Enter the value of String s1:**

**keep**

**Enter the value of String s2:**

peek

ee kp

ee kp

**Given String value is Anagram:**

**Process finished with exit code 0**

### **Output-3**

**Enter the value of String s1:**

**bhuwan**

**Enter the value of String s2:**

**bhumika**

**abhnuw**

**abhikmu**

**Given String value is not a Anagram:**

**Process finished with exit code 0**

**6.WAP to implement pangram checking with least inbuilt methods being used.**

**Ans:**

```
package Assignments_Only;

import java.util.Scanner;

public class Sixth_program {

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        String s1= "the quick brown fox jumps over lazy dog";

        boolean flag=false;

        s1=s1.replace(" ", "");

        s1=s1.toUpperCase();

        char arrs1[]=s1.toCharArray();
```

```

        int array[]=new int[26];

        for(int i=0;i<arrs1.length;i++){

            array[arrs1[i]-65]++;
        }

        for(int i=0; i< array.length;i++){

            if(array[i]==0){

                System.out.println("It is not Pangram:");
                flag=true;
            }
        }
        if(flag==false){

            System.out.println("It is a pangram:");
        }
    }
}

```

**output:**

**It is a pangram:**

**Process finished with exit code 0**

**7.WAP to find if String contains all unique Characters.**

**Ans:**

```

package Assignments_Only;

import java.util.Scanner;

public class Seventh_program {

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the value of String:");
        String s1=sc.nextLine();
        String s2="";

        for(int i=0;i<s1.length();i++){

            char s3=s1.charAt(i);

```



```

        if (s2.indexOf(s3) == -1) {
            s2 = s2 + s3;
        }
    }
    if (s1.equals(s2)) {
        System.out.println("It is unique character:");
    } else {
        System.out.println("Its is not unique character:");
    }
}
}

```

### Output:-1

Enter the value of String:

bhuwan

It is unique character:

Process finished with exit code 0

### Output:-2

Enter the value of String:

hello

Its is not unique character:

Process finished with exit code 0

## 8.WAP to find the maximum occurring character in a String ?

Ans:

```

package Assignments_Only;

import java.util.Scanner;

public class Eighth_Program {
    static final int N = 256;
    static char MaxOccuringChar(String str1) {

        int ctr[] = new int[N];
    }
}

```

```

        int l = str1.length();

        for (int i = 0; i < l; i++)

            ctr[str1.charAt(i)]++;

        int max = -1;

        char result = ' ';

        for (int i = 0; i < l; i++) {

            if (max < ctr[str1.charAt(i)]) {

                max = ctr[str1.charAt(i)];

                result = str1.charAt(i);

            }

        }

        return result;
    }

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the value of String :");
        String str1 =sc.nextLine();

        System.out.println("The given string is: " + str1);

        System.out.println("Max occurring character in the give
MaxOccuringChar  +(str1));
    }
}

```

### Output:

Enter the value of String :

bhuwan chaudhary

The given string is: bhuwan chaudhary

Max occurring character in the given string is: h

Process finished with exit code 0