

# Strings Assignment

1. WAP to remove Duplicates from a String.(Take any String ex with duplicates character)

```
public class RemoveDuplicates1 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        String str = "AaBcDdeeFfGghhiijkloxyyz";
        str = str.replace(" ", "");
        String str1 = "";

        int arr[] = new int[26];
        for (int i = 0; i < str.length(); i++) {
            if (str.charAt(i) >= 97 && str.charAt(i) <=
122) {
                str1 = str1 + (char) (str.charAt(i) -
32);

                } else {
                    str1 = str1 + str.charAt(i);
                }
            }
        for (int i = 0; i < str1.length(); i++) {
            System.out.print(str1.charAt(i) + " ");
        }

        char ch[] = str1.toCharArray();

        for (int i = 0; i < ch.length; i++) {
            int index = ch[i] - 65;
            arr[index]++;
        }

        System.out.println();
        for (int i = 0; i < arr.length; i++) {
            System.out.print(arr[i] + " ");
        }
    }
}
```

```

        System.out.println();

        int num = 0;
        for (int i = 0; i < arr.length; i++) {
            if (arr[i] == 1) {
                num = i;
                char ch1 = (char) (num + 65);
                System.out.println(arr[i]+" "+ch1+"
");
                System.out.print(ch1 + " ");
            }
        }
        System.out.print("These are not the duplicate
characters in string");

    }

}

```

2. WAP to print Duplicates characters from the String.

```

package stringsAssignment;

public class printDuplicateCharacters2 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        String str = "AaBcDdeeFfGghhiijkloxyyz";
        String str1 = "";
        int arr[] = new int[26];
        for (int i = 0; i < str.length(); i++) {
            if (str.charAt(i) >= 97 && str.charAt(i) <=
122) {
                str1 = str1 + (char) (str.charAt(i) -
32);

            } else {
                str1 = str1 + str.charAt(i);
            }
        }
    }
}

```

```

    }
}

char ch[] = str1.toCharArray();

for (int i = 0; i < ch.length; i++) {
    int index = ch[i] - 65;
    arr[index]++;
}

System.out.println();
for (int i = 0; i < arr.length; i++) {
    System.out.print(arr[i] + " ");
}
System.out.println();
System.out.println();

int num = 0;
for (int i = 0; i < arr.length; i++) {
    if (arr[i] > 1) {
        num = i;
        char ch1 = (char) (num + 65);
        //      System.out.println(arr[i]+"
//      "+ch1+" ");
        System.out.print(ch1 + " ");
    }
}
System.out.print("These are all the duplicate
characters in string");

}

}

```

3. WAP to check if "2552" is palindrome or not

```
package stringsAssignment;

public class StringPalindrome3 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        String str = "2552";
        String str1 = "";

        for (int i = str.length() - 1; i >= 0; i--) {
            str1 = str1 + str.charAt(i);
        }
        System.out.println(str1);

        if (str.equals(str1)) {
            System.out.println("It is a palindrome");
        } else {
            System.out.println("It's not a palindrome");
        }
    }
}
```

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

```
package stringsAssignment;

public class SpecialCharacters4 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        String str="123456aabcDEABCDE#$%";
        // String str1="";
    }
}
```

```

    int count=0;

    for(int i=0;i<str.length();i++)
    {
        if((str.charAt(i)>=65 && str.charAt(i)<=90) ||
(str.charAt(i)>=97 && str.charAt(i)<=122) ||
        (str.charAt(i)>=32 &&
str.charAt(i)<=47)) {
            count++;
        }
    }
    System.out.println(str.length());
    System.out.println(count);
}
}

```

5.WAP to implement Anagram Checking least inbuilt methods being used.

```

package stringsAssignment;

import java.util.Arrays;

public class AnagramString5 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        String s1="Race";
        String s2="Care";
        String s3="";
        String s4="";
        for(int i=0;i<s1.length();i++) {
            if(s1.charAt(i)>=65 && s1.charAt(i)<=90) {
                s3=s3+(char) (s1.charAt(i)+32);
            }
            else
            {
                s3=s3+s1.charAt(i);
            }
        }
    }
}

```

```

}

for(int i=0;i<s2.length();i++) {
    if(s2.charAt(i)>=65 && s2.charAt(i)<=90)
    {
        s4=s4+(char) (s2.charAt(i)+32);
    }
    else
    {
        s4=s4+s2.charAt(i);
    }
}

char ch1[]=s3.toCharArray();
char ch2[]=s4.toCharArray();

for(int i=0;i<ch1.length;i++) {
    System.out.print(ch1[i]+" ");
}

System.out.println();

Arrays.sort(ch1);
Arrays.sort(ch2);

for(int i=0;i<ch1.length;i++) {
    System.out.print(ch1[i]+" ");
}
System.out.println();
for(int i=0;i<ch2.length;i++) {
    System.out.print(ch2[i]+" ");
}
System.out.println();

if(Arrays.equals(ch1, ch2)) {
    System.out.println("It's an anagram");
}
else {
    System.out.println("It's not an anagram ");
}

```

```

        System.out.println();
        //System.out.println(s3);
        //System.out.println(s4);

    }

}

```

6. WAP to implement Pangram Checking with least inbuilt methods being used.

```

package stringsAssignment;

public class PangramString5 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        String s1="the quick brown fox jumps over the lazy
dog";
        s1=s1.replace(" ", "");
        boolean flag=false;

        char ch[]=s1.toCharArray();
        int [] ar=new int[26];

        for(int i=0;i<ch.length;i++) {
            int index=ch[i]-97;
            ar[index]++;
            System.out.print(ar[index]+" ");
        }
        System.out.println();
        for(int i=0;i<ar.length;i++) {
            if(ar[i]==0) {
                System.out.println("It,s not pangram");
                flag=true;
            }
        }
        System.out.println();
        if(flag==false) {
            System.out.println("It's a pangram");
        }
    }
}

```

```

    }
  }
}

```

7. WAP to find if String contains all unique characters.

```

package stringsAssignment;

public class UniqueCharacters7 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        String str = "abcdefghi";
        String str1 = "";
        boolean flag=false;
        int arr[] = new int[26];
        for (int i = 0; i < str.length(); i++) {
            if (str.charAt(i) >= 97 && str.charAt(i) <=
122) {
                str1 = str1 + (char) (str.charAt(i) -
32);

                } else {
                    str1 = str1 + str.charAt(i);
                }
            }

        char ch[] = str1.toCharArray();

        for (int i = 0; i < ch.length; i++) {
            int index = ch[i] - 65;
            arr[index]++;
        }

        System.out.println();
        for (int i = 0; i < arr.length; i++) {
            System.out.print(arr[i] + " ");
        }
        System.out.println();
    }
}

```



```

    int num = 0;
    for (int i = 0; i < arr.length; i++) {
        if (arr[i] > 1) {

            System.out.print("It's not a unique
characters string ");
            flag = true;
        }
    }

    if (flag == false) {
        System.out.print("It's a string which
contains unique characters ");
    }

}

}

```

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

```

package stringsAssignment;

public class MaximumOccuringCharcater8 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        String str =
"AaaBbbbbbbbbcCCdefghiaXXXXXXXXXXYYYYZZZZZZZZzZ";
        String str1 = "";
        boolean flag = false;
        int arr[] = new int[26];
        for (int i = 0; i < str.length(); i++) {
            if (str.charAt(i) >= 97 && str.charAt(i) <=
122) {

                str1 = str1 + (char) (str.charAt(i) -
32);

            } else {
                str1 = str1 + str.charAt(i);

```

```

    }
}

char ch[] = str1.toCharArray();
for(int i=0;i<ch.length;i++) {
    System.out.print(ch[i]+" ");
}

for (int i = 0; i < ch.length; i++) {
    int index = ch[i] - 65;
    arr[index]++;
}

System.out.println();
for (int i = 0; i < arr.length; i++) {
    System.out.print(arr[i] + " ");
}
System.out.println();

int num=0;
int max=0;

for(int i=0;i<arr.length;i++) {
    if(arr[i]>max) {
        max=arr[i];
        num=i;
    }
}
char ch1=(char) (num+65);
System.out.println(ch1+" is repeating "+max+"
times");

}

}

```