

Strings in Java

1.WAP to remove duplicates from the string

```
public class Main {

    public static void remDuplicates(char s[], int n)
    {
        String ans="";
        int i,j;
        for(i=0;i<n;i++){
            for(j=0;j<i;j++){
                if(s[i]==s[j]){
                    break;
                }

            }
            if(j==i){
                ans+=s[i];
            }
        }
        System.out.print(ans);
    }

    public static void main(String[] args)
    {
        char s[] = "aaabaababbccbccd".toCharArray();
        int n = s.length;
        removeDuplicates(s, n);
    }
}
```

2.WAP to write a duplicate characters from the string

```
public class Examp {
    public static void main(String argu[]) {
        String str = "bus journey is best";
        char[] carray = str.toCharArray();
        System.out.println("The string is:" + str);
        System.out.print("Duplicate Characters in above string are: ");
        for (int i = 0; i < str.length(); i++) {
            for (int j = i + 1; j < str.length(); j++) {
                if (carray[i] == carray[j]) {
                    System.out.print(carray[j] + " ");
                    break;
                }
            }
        }
    }
}
```

```

    }
  }
}

```

3.WAP to check if 2552 is palindrome or not

```

class PalindromeExamp{
public static void main(String args[]){
    int r,sum=0,temp;
    int n=454;//It is the number variable to be checked for palindrome

    temp=n;
    while(n>0){
        r=n%10; //getting remainder
        sum=(sum*10)+r;
        n=n/10;
    }
    if(temp==sum)
        System.out.println("palindrome number ");
    else
        System.out.println("not palindrome");
    }
}

```

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

```

public class JavaExamp {

    public static void main(String[] args) {
        String str = "BookReading";
        int vcount = 0, ccount = 0, cspl=0;

        //converting all the chars to lowercase
        str = str.toLowerCase();
        for(int i = 0; i < str.length(); i++)
        {
            char ch = str.charAt(i);
            if(ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u')
            { vcount++; } else if((ch >= 'a' && ch <= 'z'))
            {
                ccount++;
            }
        }
    }
}

```

```

        else {
            cspl++;
        }
    }
    System.out.println("Number of Vowels: " + vcount);
    System.out.println("Number of Consonants: " + ccount);
    System.out.println("Number of Special Characters: " + cspl );
}
}

```

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

```

import java.io.*;
import java.util.Arrays;
import java.util.Collections;

class AnagramExam {
    static boolean areAnagram(char[] str1, char[] str2)
    {
        int n1 = str1.length;
        int n2 = str2.length;

        if (n1 != n2)
            return false;

        Arrays.sort(str1);
        Arrays.sort(str2);

        for (int i = 0; i < n1; i++)
            if (str1[i] != str2[i])
                return false;
        return true;
    }

    public static void main(String args[])
    {
        char str1[] = { 'g', 'r', 'a', 'm' };
        char str2[] = { 'a', 'r', 'm' };

        if (areAnagram(str1, str2))
            System.out.println("The two strings are"
                + " anagram of each other");
        else
    }
}

```

```

        System.out.println("The two strings are not" + " anagram of each other");
    }
}

```

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

```

public class PangramExam {
    public static void main(String[] args) {
        String str = "The quick brown fox jumps over the lazy dog";
        boolean[] alphaList = new boolean[26];
        int index = 0;
        int flag = 1;
        for (int i = 0; i < str.length(); i++) {
            if (str.charAt(i) >= 'A' && str.charAt(i) <= 'Z') {
                index = str.charAt(i) - 'A';
            } else if (str.charAt(i) >= 'a' && str.charAt(i) <= 'z') {
                index = str.charAt(i) - 'a';
            }
            alphaList[index] = true;
        }
        for (int i = 0; i <= 25; i++) {
            if (alphaList[i] == false)
                flag = 0;
        }
        System.out.print("String: " + str);
        if (flag == 1)
            System.out.print("The above string is a pangram.");
        else
            System.out.print("The above string is not a pangram.");
    }
}

```

7.WAP to find if string contains all unique characters

```

import java.util.*;

class UniqueChar {
    boolean uniqueCharacters(String str)
    {

        for (int i = 0; i < str.length(); i++)
            for (int j = i + 1; j < str.length(); j++)
                if (str.charAt(i) == str.charAt(j))
                    return false;
    }
}

```

```

        return true;
    }
    public static void main(String args[])
    {
        Astr obj = new Astr();
        String input = "cloudoncloud";

        if (obj.uniqueCharacters(input))
            System.out.println("The String " + input + " has all unique characters");
        else
            System.out.println("The String " + input + " has duplicate characters");
    }
}

```

8.WAP to find maximum occurring character in a string

```

public class MaxChar {
    static final int ASCII_SIZE = 256;
    static char getMaxOccurringChar(String str)
    {
        int count[] = new int[ASCII_SIZE];

        int len = str.length();
        for (int i = 0; i < len; i++)
            count[str.charAt(i)]++;

        int max = -1;
        char result = ' ';
        for (int i = 0; i < len; i++) {
            if (max < count[str.charAt(i)]) {
                max = count[str.charAt(i)];
                result = str.charAt(i);
            }
        }

        return result;
    }

    public static void main(String[] args)
    {
        String str = "sample string";
        System.out.println("Max occurring character is "+ getMaxOccurringChar(str));
    }
}

```