

1. Reverse the words in the sentence

```
import java.util.Scanner;
class ReverseWord
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter your sentence:");
        String st=sc.nextLine();
        char ch[]=st.toCharArray();
        st="";
        for (int i=0;i<ch.length ;i++ )
        {
            int k=i;
            while (i<ch.length && ch[i]!=' ')
            {
                i++;
            }
            int j=i-1;
            while (j>=k)
            {
                st=st+ch[j];
                j--;
            }
            if (i<ch.length)
            {
                st=st+ch[i];
            }
        }
        System.out.println(st);
    }
}
```

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OUTPUT:

Enter your sentence:
reversing each word
gnisrever hcae drow

2. Reverse the sentence

```
import java.util.Scanner;
class ReverseScentence
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter your sentence:");
        String st=sc.nextLine();
        char ch[]=st.toCharArray();
        st="";
        for (int i=ch.length-1 ; i>=0 ; i-- )
        {
            int k=i;
            while (i>=0 && ch[i]!=' ')
            {
                i--;
            }
            int j=i+1;
            while (j<=k)
            {
                st=st+ch[j];
                j++;
            }
            if(i>=0)
                st=st+ch[i];
        }
        System.out.println(st);
    }
}
```

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OUTPUT:

Enter your sentence:
this to reverse the scentence
scentence the reverse to this

3. Count number of words in sentence

```
import java.util.Scanner;
class WordCount
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter your sentence:");
        String st=sc.nextLine();
        char ch[]=st.toCharArray();
        int count=0;
        for (int i=0;i<ch.length ;i++ )
        {
            if(i==0 && ch[i]!=' ' || ch[i]!=' ' && ch[i-1]==' ')
                count++;
        }
        System.out.println('Number of words in sentence:' +count);
    }
}
```

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OUTPUT:

```
Enter your sentence:
count of the words in scentence
Number of words in sentence:6
```

4. Display first letter as capital in given sentence

```
import java.util.Scanner;
class FirstCharUpper
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter your sentence:");
        String st=sc.nextLine();
        char ch[]=st.toCharArray();
        st="";
        for (int i=0;i<ch.length ;i++ )
        {
            if (i==0 && ch[i]!=' ' || ch[i]!=' ' && ch[i-1]==' ')
            {
                if(ch[i]>='a' && ch[i]<='z')
                    ch[i]=(char) (ch[i]-32);
            }
            else if (ch[i]>='A' && ch[i]<='Z')
            {
                ch[i]=(char) (ch[i]+32);
            }
            st=st+ch[i];
        }
        System.out.println(st);
    }
}
```

OUTPUT:

Enter your sentence:

this is good output

This Is Good Output

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5. To print number of characters in each word in sentence

```
import java.util.Scanner;
class CharInWordCount
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter your sentence:");
        String st=sc.nextLine();
        char ch[]=st.toCharArray();
        st="";
        for (int i=0;i<ch.length ;i++ )
        {
            int c=0;
            while (i<ch.length && ch[i]!=' ')
                {
                    st=st+ch[i];
                    i++;
                    c++;
                }
            st=st+c;
            //System.out.println(st);
        }
        System.out.println(st);
    }
}
```

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OUTPUT:

Enter your sentence:

what is this>

what4is2this>5

6. To count how many uppercase, lowercase, digit, vowels, consonants, special symbol in given sentence

```
import java.util.Scanner;
class CountCharNumbers
{
    public static void main(String[] args)
    {
        int uc=0,lc=0,dc=0,vc=0,cc=0,sc=0;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the String:");
        String st=s.nextLine();
        char ch[]=st.toCharArray();
        for(int i=0;i<ch.length;i++)
        {
            if(ch[i]>='A' && ch[i]<='Z')
            {
                uc++;
                if(ch[i]=='A' || ch[i]=='E' || ch[i]=='T' || ch[i]=='O' || ch[i]=='U')
                    vc++;
                else
                    cc++;
            }
            else if(ch[i]>='a' && ch[i]<='z')
            {
                lc++;
                if(ch[i]=='a' || ch[i]=='e' || ch[i]=='i' || ch[i]=='o' || ch[i]=='u')
                    vc++;
                else
                    cc++;
            }
            else if(ch[i]>='0' && ch[i]<='9')
                dc++;
            else
                sc++;
        }
        System.out.println("uppercase:"+uc);
        System.out.println("lowercase:"+lc);
        System.out.println("vowels:"+vc);
        System.out.println("consonants:"+cc);
        System.out.println("digits:"+dc);
        System.out.println("special characters:"+sc);
    }
}
```

OUTPUT:

Enter the String:
we are counting 56789 EveryThing@#\$
uppercase:2 lowercase:21 vowels:9
consonants:14 digits:5 special characters:7

7. Count of each character in the given sentence

```
class CountCharacters
{
    public static void main(String[] args)
    {
        String st="we are reading occurrences of characters";
        char ch[]=st.toCharArray();
        int n=ch.length;
        for(int i=0;i<n;i++)
        {
            int count=1;
            for(int j=i+1;j<n;j++)
            {
                if(ch[i]==ch[j])
                {
                    count++;
                    int k=j;
                    while(k<n-1)
                    {
                        ch[k]=ch[k+1];
                        k++;
                    }
                    n--;
                    j--;
                }
            }
            System.out.println(ch[i]+" occurred "+count+" times");
        }
    }
}
```

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OUTPUT:

w occurred 1 times
e occurred 5 times
 occurred 5 times
a occurred 5 times
r occurred 6 times d occurred 1 times i occurred 1 times n occurred 2 times
g occurred 1 times
o occurred 2 times
c occurred 5 times
u occurred 1 times s occurred 2 times f occurred 1 times
h occurred 1 times
t occurred 1 times

8. Finding the Anagram

```
import java.util.Scanner;
class Anagram
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter first sentence:");
        String st1=sc.nextLine();
        System.out.println("Enter second sentence:");
        String st2=sc.nextLine();
        Anagram a1=new Anagram();
        boolean res=a1.isAnagram(st1,st2);
        if (res)
            System.out.println("Strings are anagram");
        else
            System.out.println("Strings are not anagram");
    }
}
class Anagram
{
    boolean isAnagram(String s1,String s2)
    {
        s1=removeSpace(s1);
        s2=removeSpace(s2);
        if(s1.length()!=s2.length())
            return false;
        s1=toLowerCase(s1);
        s2=toLowerCase(s2);
        boolean b=check(s1,s2);
        return b;
    }

    boolean check(String s1,String s2)
    {
        char ch1[]=s1.toCharArray();
        char ch2[]=s2.toCharArray();
        ch1=sort(ch1);
        ch2=sort(ch2);
        for (int i=0;i<ch1.length ;i++ )
        {
            if(ch1[i]!=ch2[i])
                return false;
        }
        return true;
    }
}
```

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```

char[] sort(char ch[])
{
    for (int i=0;i<ch.length ;i++ )
    {
        for (int j=i+1;j<ch.length ;j++ )
        {
            if(ch[i]>ch[j])
            {
                char temp=ch[i];
                ch[i]=ch[j];
                ch[j]=temp;
            }
        }
    }
    return ch;
}

```

```

String removeSpace(String st)
{
    char ch[]=st.toCharArray();
    st="";
    for (int i=0;i<ch.length ;i++ )
    {
        if(ch[i]!=' ')
            st=st+ch[i];
    }
    return st;
}

```

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```

String toLowerCase(String st)
{
    char ch[]=st.toCharArray();
    for (int i=0;i<ch.length ;i++ )
    {
        if(ch[i]>=65 && ch[i]<=91)
            ch[i]=(char) (ch[i]+32);
    }
    st=new String(ch);
    return st;
}

```

OUTPUT:

Enter first sentence:

keep peek

Enter second sentence:

PeeK Keep

Strings are anagram

9. Find the substring in the given sentence

```
import java.util.Scanner;
class SubString
{
    static boolean check(String st1,String st2)
    {
        char[] c1=st1.toCharArray();
        char[] c2=st2.toCharArray();
        for(int i=0;i<c1.length;i++)
        {
            int k=i;
            //int i++;
            int j=0;
            while(k<c1.length && j<c2.length && c1[k]==c2[j])
            //while(i<c1.length && j<c2.length && c1[i]==c2[j])
            {
                k++;
                //i++;
                j++;
            }
            if(j==c2.length && (i==0 || c1[i-1]==' ') && (k==c1.length || c1[k]==' '))
                return true;
            //i--;
        }
        return false;
    }

    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the main string:");
        String ms=sc.nextLine();
        System.out.println("Enter the sub string:");
        String ss=sc.nextLine();
        boolean rs=check(ms,ss);
        if(rs)
            System.out.println("yes");
        else
            System.out.println("no");
    }
}
```

OUTPUT:

Enter the main string:

we are the best of the best

Enter the sub string:

best

yes

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10. Finding how many times each sub string is present

```
import java.util.Scanner;
class SubStringRepeat
{
    static int countWord(String st1, String st2)
    {
        char[] c1 = st1.toCharArray();
        char[] c2 = st2.toCharArray();
        int count = 0;
        for (int i = 0; i < c1.length; i++)
        {
            int in = -1;
            int k = i;
            int j = 0;
            while (k < c1.length && j < c2.length && c1[k] == c2[j])
                //while (i < c1.length && j < c2.length && c1[i] == c2[j])
            {
                k++;
                //i++;
                j++;
            }
            if (j == c2.length && (i == 0 || c1[i - 1] == ' ') && (k == c1.length || c1[k] == ' '))
            {
                count++;
                //i--;
            }
        }
        return count;
        //return in;
    }
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the main string:");
        String ms = sc.nextLine();
        System.out.println("Enter the sub string:");
        String ss = sc.nextLine();
        int rs = countWord(ms, ss);
        if (rs > 0)
            System.out.println("yes found " + rs + " times");
        else
            System.out.println("not found");
    }
}
```

OUTPUT:

Enter the main string:
we are the best in the best of all the best
Enter the sub string:
best
yes found 2 times