

String In Java

1.What is a mutable string in java explained with an example?

With Mutable string, we can change the contents of an existing object, which does not create a new object. Therefore mutable strings are those strings whose content can be changed without creating a new object. StringBuffer and StringBuilder are mutable versions of String in java, whereas the java String class is immutable. Immutable objects are those objects whose contents cannot be modified once created. Whenever an immutable object's content is changed, there will be a creation of a new object.

The following are the main constructors of string builder and string buffer classes.

1. StringBuffer Constructors

StringBuffer(): This creates an empty StringBuffer with a default capacity of 16 characters.

StringBuffer(int capacity): This creates an empty StringBuffer with a specified capacity.

StringBuffer(CharSequence charseq): This creates a StringBuffer containing the same characters as in the specified character sequence.

StringBuffer(String str): Creates a StringBuffer corresponding to specified String.

2. StringBuilder Constructors

StringBuilder(): This creates an empty StringBuilder with a default capacity of 16 characters.

StringBuilder(int capacity): This creates an empty StringBuilder with a specified capacity.

StringBuilder(CharSequence charseq): This creates StringBuilder containing the same characters as in the specified character sequence.

StringBuilder(String str): Creates a StringBuilder corresponding to specified String.

2.WAP to reverse a string.

Input: "PWSKILLS"

output:"SLLIKSWP"

```
class HelloWorld {
    public static void main(String[] args) {
        String str1= "PWSKILLS";
        String str2= "";
        for (int i=str1.length()-1 ; i>=0; i--)
        {
            str2 = str2+str1.charAt(i);

        }
        System.out.println("before reversing,"+str1);
        System.out.println("after reversing"+str2);

    }
}
```

3.WAP to reverse a sentence while preserving the position.

Input:THINK TWICE

output:"KNIKT ECIWT"

```
class HelloWorld {
    public static void main(String[] args) {
        String str1= "THINK TWICE";
        String str2= "";

        String sarr[]=str1.split(" ");
        for(String elem :sarr)
        {
            for(int i=elem.length()-1 ; i>=0;i--)
            {
                str2=str2+ elem.charAt(i);
            }
            str2=str2+" ";
        }
        System.out.println("Before Reversing: " + str1);
        System.out.println("After Reversing: " +str2);
    }
}
```

4.WAP to sort a string Alphabetically.

```
class HelloWorld {
    public static void main(String[] args) {
        boolean flag=false;
        String str="THE QUICK BROWN FOX JUMPS OVER LAZY DOG";
        str=str.replace(" ", "");
        char []ch=str.toCharArray();

        int ar[]=new int[26];

        for(int i=0;i<ch.length;i++)
        {
            ar[ch[i]-65]++;
        }
        for(int i=0;i<ar.length;i++)
        {
            if(ar[i]==0)
            {
                System.out.println("Its not pangram");
                flag=true;
            }
        }

        if(flag==false)
        {
            System.out.println("Its pangram");
        }
    }
}
```