

06 Feb'23 Mutable Strings in Java Assignment - 14

1. What is Mutable String in Java Explain with an example

Ans: Once if we create a String, on that String if we try to perform any operation and if those changes get reflected in the same object then such strings are called "Mutable String".

Example: StringBuffer, StringBuilder

2. WAP to reverse a String

Input: "PWSKILLS"

Output: "SLLIKSPW"

Ans:

```
StringBuffer sb=new StringBuffer("PWSKILLS");
sb.reverse();
System.out.println(sb);//SLLIKSPW
```

3. WAP to reverse a sentence while preserving the position

Input: Think Twice

Output: "kniht eciwt"

Ans:

```
public class ReversePreservingPositionString {
    public static void main(String[] args) {
```

```
        String str = "Think Twice";
        String str1 = "";
```

```
        String[] sarr = str.split(" ");
```

```
        for (String elements : sarr) {
            for (int i = elements.length() - 1; i >= 0; i--) {
                str1 += elements.charAt(i);
            }
            str1 += " ";
```

```
        }
        System.out.println("Before reversing: " + str);
        System.out.println("After reversing: " + str1);
```

```
    }
}
```

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4. WAP to sort a String Alphabetically

```
Ans: public class SortStringAlphabetically {  
    public static void main(String[] args) {  
        String str = "Raining in the forest 56@";  
  
        char[] ch = str.toCharArray();  
  
        Arrays.sort(ch);  
  
        str = new String(ch);  
  
        System.out.println("Before sorting alphabetically: " + str);  
    }  
}
```