

# Strings in Java

## Assignment Questions

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#### 1.What is a string in java?

**Ans-** The string class is immutable, which means that once a string object is created, its value cannot be changed. However, there are other classes in Java, such as `StringBuilder` and `StringBuffer`, which are mutable and can be used to manipulate string.

#### 2.WAP to reverse a string.

**Input-** "PWSKILLS"

**Output-**"SLLIKSPW"

**Ans-**

```
public class StringReverser {
    public static void main(String[] args) {
        String str = "PWSKILLS";
        String result = reverseString(str);
        System.out.println("The original string is: " + str);
        System.out.println("The reversed string is: " +
            result);
    }

    public static String reverseString(String
        str) {

        StringBuilder sb = newStringBuilder(str);
        sb.reverse

        Return sb toString();
    }
}
```

```
}
```

Output:

The original string is: PWSKILLS

The reversed string is: SLLIKSWP

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

**Input: "Think Twice"**

**Output: "kniht eciwT"**

**Ans-**

```
public class SentenceReverser1 {  
  
    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(str2);  
  
    }  
  
}
```

Output: kniht eciwTg is: SLLIKSWP

#### 4. WAP to sort a String Alphabetically

**Ans-**

```
class SortingOrder {  
    static void sortString(String str) {  
        char []arr = str.toCharArray();  
        Arrays.sort(arr);  
        System.out.print(String.valueOf(arr));  
    }  
    public static void main(String[] args) {  
        String s = "aabbzzncedt";  
        sortString(s);  
    }  
}
```

Output: aabbcdentzz