

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

Sol. 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.

2. WAP to reverse a String , Input: PWSKILLS , Output: "SLLIKSPW".

Sol.

```
public class string2{
    public static void main(String[] args) {
        String str = "PWSKILLS";
        String str1 = "";

        for(int i = str.length()-1; i>=0; i--){
            str1 = str1 + str.charAt(i);
        }
        System.out.println("original string for riversing " +
str1);
    }
}
```

3. WAP to reverse a sentence while preserving the position.
Input : "Think Twice"
Output: "kniht eciwt"

Sol.

```
public class stringrev{
    public static void main(String[] args) {
        String str = "Think Twice";
        String str1 = "";
        for(int i = str.length()-1; i>=0; i--){
            str1 = str1 + str.charAt(i);
        }
        System.out.println("original string for riversing " +
str1);
    }
}
```

4. WAP to sort a String Alphabetically.

Sol. import java.util.Arrays;

```
public class SortStringAlphabetically {  
    public static void main(String[] args) {  
        String str = "hello world";  
        String sortedStr = sortString(str);  
        System.out.println(sortedStr);  
    }  
  
    public static String sortString(String str) {  
        // Convert the string to a character array  
        char[] charArray = str.toCharArray();  
        // Sort the character array  
        Arrays.sort(charArray);  
        // Convert the sorted character array back to a string  
        String sortedStr = new String(charArray);  
        return sortedStr;  
    }  
}
```