

1.	<b>What is Mutable String in Java Explain with an example.</b>
Ans.	<p>The String which is created and can be changed or updated later.</p> <pre>StringBuilder mutableString = new StringBuilder("Hello"); System.out.println("Original string: " + mutableString);  // Appending to the string mutableString.append(" World!"); System.out.println("After appending: " + mutableString);  // Inserting into the string mutableString.insert(5, ", dear"); System.out.println("After inserting: " + mutableString);  // Deleting from the string mutableString.delete(5, 11); System.out.println("After deleting: " + mutableString);  // Updating the character at a specific index mutableString.setCharAt(0, 'h'); System.out.println("After updating: " + mutableString);</pre>
2.	<b>WAP to reverse a string</b> <b>Input: "PWSKILLS"</b> <b>Output: "SLLIKSWP"</b>
Ans.	<pre>public class Solution {     public static void main(String[] args)     {         String input = "PWSKILLS";         String reversed = reverseString(input);         System.out.println("Input: " + input);         System.out.println("Reversed: " + reversed);     }      public static String reverseString(String str)     {         StringBuilder reversedString = new StringBuilder();</pre>

```

        for (int i = str.length() - 1; i >= 0; i--)
        {
            reversedString.append(str.charAt(i));
        }
        return reversedString.toString();
    }
}

```

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

**Input: Think Twice**

**Output: "kniht eciwt"**

**Ans.**

```

public class Solution
{
    public static void main(String[] args)
    {
        String input = "Think Twice";
        String reversedSentence = reverseSentence(input);
        System.out.println("Input: " + input);
        System.out.println("Reversed: " + reversedSentence);
    }

    public static String reverseSentence(String sentence)
    {
        String[] words = sentence.split(" ");
        StringBuilder reversedSentence = new StringBuilder();

        for (String word : words)
        {
            StringBuilder reversedWord = new StringBuilder(word).reverse();
            reversedSentence.append(reversedWord).append(" ");
        }

        reversedSentence.setLength(reversedSentence.length() - 1); // Remove the trailing space
        return reversedSentence.toString();
    }
}

```

**4.**

**WAP to sort a string Alphabetically.**

**Ans.**

```
import java.util.Arrays;

public class Solution
{
    public static void main(String[] args)
    {
        String input = "fedcba";
        String sortedString = sortString(input);
        System.out.println("Input: " + input);
        System.out.println("Sorted: " + sortedString);
    }

    public static String sortString(String str)
    {
        char[] charArray = str.toCharArray();
        Arrays.sort(charArray);
        return new String(charArray);
    }
}
```