

Assignment - 2.



1. what is mutable string in Java Explain with an example.

The string class is immutable, which means that once a string object is created its value string buffer, which are mutable are mutable and can be used to manipulate string.

Here's an example of using a mutable string in Java with the stringbuilder class:

```
String builder sb = new StringBuilder("Hello");  
sb.append("world"); // append method adds the  
                        String "world" to the end of sb  
System.out.println(sb); // prints "Hello world".
```

In this example, we create a string builder object sb with an initial value of "Hello". we then use the append method to add the string "world" to the end of sb. finally, we print the value of sb. finally, we print the value of sb, which is "Hello world".

Q.2. W.A.P to reverse a string

Input: "Pw SKILLS"

Output: "SLLIK SPw"

~~String str = "PwSKILLS";~~

```
Public class StringReverse {
```

```
    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) {
```

```
            String Builder sb = new String Builder (str);
```

```
            sb.reverse ();
```

```
            return sb.toString ();
```

```
        }
```

```
    }
```

Output: The original string is: PwSKILLS
The reversed string: SLLIK SPw

Q.3. W.A.P to reverse a sentence while knowing the position.
Input : Think twice
Output : "Kniht ecitw"

```
public class sentenceReverser {  
    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 ecitw is : s\$LLTH\$wP.

Q. 4. W.A.P. to sort a string Alphabetically



```
import java.util.Arrays;
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