

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

Ans: 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.

```
public class Main
// Example of mutable string
{
public static void main(String[] args)
{
StringBuilder brand1=new StringBuilder("pwskill");
System.out.println(brand);
brand1.append("Bengaluru");
System.out.println(brand1);
}
}
```

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

```
class Main
{
public static void main (String[] args)
{
String str= "PWSKILLS", rev="";
char ch;
System.out.println("Input: "+str);
for (int i=0; i<str.length(); i++)
{
ch= str.charAt(i);
nstr= ch+rev;
}
System.out.println("Output: "+ rev);
}
```

```
}  
}
```

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

```
public class Main  
{  
    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("Input: " + str1);  
        System.out.println("Output: " +str2);  
    }  
}
```

4. WAP to sort a String Alphabetically.

```
import java.util.Arrays;  
public class Main  
{
```

```
public static String sortString(String inputString)
{
    char tempArray[] = inputString.toCharArray();
    Arrays.sort(tempArray);
    return new String(tempArray);
}
public static void main(String[] args)
{
    String inputString = "i am suraj";
    String outputString = sortString(inputString);
    System.out.println("Input String : " + inputString);
    System.out.println("Output String : " + outputString);
}
}
```