### Day 17 Assignment

```
    What is Mutable String in Java Explain with an example
    WAP to reverse a String
```

Input: "PWSKILLS"
Output: "SLLIKSPW"

3. WAP to reverse a sentence while preserving the position

Input: Think Twice
Output: "kniht eciwt"

4. WAP to sort a String Alphabetically

#### 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"

```
Ans:
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);
    }
}</pre>
```

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

```
Ans:
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

```
Ans:
```

```
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);
    }
}
```