**Strings in Java**

**Assignments Questions**

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

Mutability in java means changing the string object without creating the other one.

Let’s assume we create a string.

**String s=new String(“Akash”);**

If this string is created and we want to change the value or add some more then we can not do with the same object.

If we do **s=s.concat(“ Kumar”);**

In that case new object will be created and s will refer to that object.

To create Mutable String we can either use **StringBuffer** and **StringBuilder** class.

**StringBuffer s1=new StringBuffer(“Akash”);**

And we can do the changes on same object using

**s1.concat(“Kumar”);**

Diagram

Description automatically generatedDiagram

Description automatically generatedThis will append kumar to Akash in same object on which s1 was earlier referring.

**String class**

**StringBuilder or StringBuffer class**

**2. WAP to reverse a String**

**Input: "PWSKILLS"**

**Output: "SLLIKSPW"**

public class assignmentDay17{

    public static void main( String args[]){

        StringBuffer sb=new StringBuffer("PWSKILLS");

        StringBuffer temp=new StringBuffer("");

        for(int i=sb.length()-1;i>=0;i--){

            temp.append(sb.charAt(i));

        }

        System.out.println(temp);

    }

}

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

**Input: Think Twice**

**Output: "kniht eciwt"**

public class assignmentDay17{

    public static void main( String args[]){

                String sb=new String("Think Twice");

        sb=sb.toLowerCase();

        StringBuffer temp=new StringBuffer("");

        String splitted[] =sb.split(" ");

        for(String str: splitted){

            for(int i=str.length()-1;i>=0;i--){

                temp.append(str.charAt(i));

            }

            temp.append(" ");

        }

        System.out.println(temp);

    }

}

**4. WAP to sort a String Alphabetically**

import java.util.Arrays;

public class assignmentDay17{

    public static void main( String args[]){

        String s=new String("akash Kumar pwskills java");

        s=s.toLowerCase();

        s=s.replace(" ","");

        char[] temp=s.toCharArray();

        Arrays.sort(temp);

        for(int i=0;i<temp.length;i++)

        System.out.print(temp[i]);

    }

}