

Strings in Java

Assignment-14

1.What is Mutable String in java ? Explain with an Examples..

Ans: The String is immutable, so its value cannot be changed. If the String doesn't remain immutable, any hacker can cause a security issue in the application by changing the reference value. The String is safe for multithreading because of its immutableness. Different threads can access a single "String instance".

What is an example of mutable String?

StringBuilder is an example of a mutable type. It has methods to delete parts of the string, insert or replace characters, etc. By contrast, StringBuilder objects are mutable.

2.WAP to reverse a String..

Input:"PWSKILLS"

Output:"SLLIKSPW"

Ans:

```
package Assignment_Of_Mutable_String_in_Java;

import java.util.Scanner;

public class Reverse_a_String {

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the value of String:");
        String s2=sc.nextLine();

        StringBuffer s1=new StringBuffer(s2) ;
        s1.reverse();

        System.out.println(s1);

    }
}
```

Output:

Enter the value of String:

PWSKILLS

SLLIKSWP

Process finished with exit code 0

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

Input: Think Twice

Output:kniht eciwt

Ans:

```
package Assignment_Of_Mutable_String_in_Java;

import java.util.Scanner;

public class Reverse_String_while_preserving_position {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter a sentence: ");
        String s1 = scanner.nextLine();

        String[] arrs1 = s1.split(" ");

        StringBuffer s2 = new StringBuffer();

        for (int i = 0; i < arrs1.length; i++) {

            String s3 = arrs1[i];

            StringBuffer s4 = new StringBuffer(s3).reverse();

            s2.append(s4).append(" ");

        }

        System.out.println("Reversed sentence: " +
s2.toString().trim());

    }

}
```

Output:

Enter a sentence: Think Twice

Reversed sentence: knihT eciwT

Process finished with exit code 0

4.WAP to sort a String Alphabetically ?

Ans:

```
package Assignment_Of_Mutable_String_in_Java;

import java.util.Arrays;
import java.util.Scanner;

public class Sort_character_Alphabetically {

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the sentence:");
        String s1=sc.nextLine();

        char arrs1[]=s1.toCharArray();

        Arrays.sort(arrs1);

        System.out.println(arrs1);

    }
}
```

Output:

Enter the sentence:

bhuwan chaudhary

aaabcdhnhnruuwy

Process finished with exit code 0