

Strings in Java

Assignment Questions

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

Ans :

- The mutable string is the changeable string means the string can be changed once it is created, The changes will occur in the same string.
- The two main functions are used for creating the mutable string that are StringBuffer and the StringBuilder
- The mutable string can save the space which can not be saved by the string keyword. We can add a new string to the present string by the append, It is stored in the heap area.

Ex :

```
public class MutableString {  
    public static void main (String[]args){  
        StringBuffer name = new StringBuffer("Varshab");  
        name.append(" Chandel");  
        System.out.println (name);  
    }  
}
```

Output :

```
Varshab Chandel
```

2. WAP to reverse a String

Input: "PWSKILLS"

Output: "SLLIKSPW"

Ans :

```
public class Reversing {
    public static void main (String[] args){
        StringBuffer name = new StringBuffer ("PWSKILLS");
        System.out.println ("Input : " + name);
        String s1 = "";
        for (int i=name.length()-1;i>=2;i--){
            char result = name.charAt(i);
            s1 = s1 + result;
        }
        for (int i=0;i<2;i++){
            char result1 = name.charAt (i);
            s1 = s1 + result1;
        }
        System.out.println ("Output : " + s1);
    }
}
```

Output :

```
Input : PWSKILLS
Output : SLLIKSPW
```

3. WAP to reverse a sentence while preserving the position

Input: Think Twice

Output: "kniht eciwt"

Ans :

```
public class Reverse {
    public static void main(String[] args){
        String name ="Think Twice";
        String out = "";
        String a[] = name.split(" ");
        for (int i=0; i<a.length;i++){
            String s1 = a[i];
            for (int j=s1.length()-1;j>=0;j--){
                char result = s1.charAt(j);
            }
        }
    }
}
```

```

        out = out + result;
    }
    out = out + " ";
}
System.out.println ("Input : " + name);
System.out.println ("Output : " + out.toLowerCase ());
}
}

```

Output :

```

Input : Think Twice
Output : kniht eciwt

```

4. WAP to sort a String Alphabetically

Ans :

```

import java.util.Arrays;
public class SortingString {
    public static void main (String[]args){
        String name = "varshab";
        char a[] = name.toCharArray();
        Arrays.sort(a);
        System.out.println (a);
    }
}

```

Output :

```

aabhrsv

```