

Techie Delight

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Convert char array to String in Java

In this post, we will discuss how to convert char array to String in Java. A new String should be allocated that represents the sequence of characters contained in the char array. Since String is immutable in Java, the subsequent modification of the character array does not affect the allocated string.

1. Using String Constructor

The simplest solution is to pass the char array into the String constructor. The String constructor internally uses `Arrays.copyOf()` to copy the contents of the character array.

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```
3 {
4     public static void main(String[] args)
5     {
6         char[] chars = {'T', 'e', 'c', 'h', 'i', 'e', ' ',
7                         'D', 'e', 'l', 'i', 'g', 'h', 't'};
8
9         String string = new String(chars);
10        System.out.println(string);
11    }
12 }
```

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Output:

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2. String.valueOf() or String.copyValueOf()

We can encapsulate the String constructor call by using `String.valueOf()` or `String.copyValueOf()` which internally does the same thing.

```
1 // Convert char array to String in Java
2 class Util
3 {
4     public static void main(String[] args)
5     {
6         char[] chars = {'T', 'e', 'c', 'h', 'i', 'e', ' ',
7                         'D', 'e', 'l', 'i', 'g', 'h', 't'};
8     }
```

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```
12 | }
```

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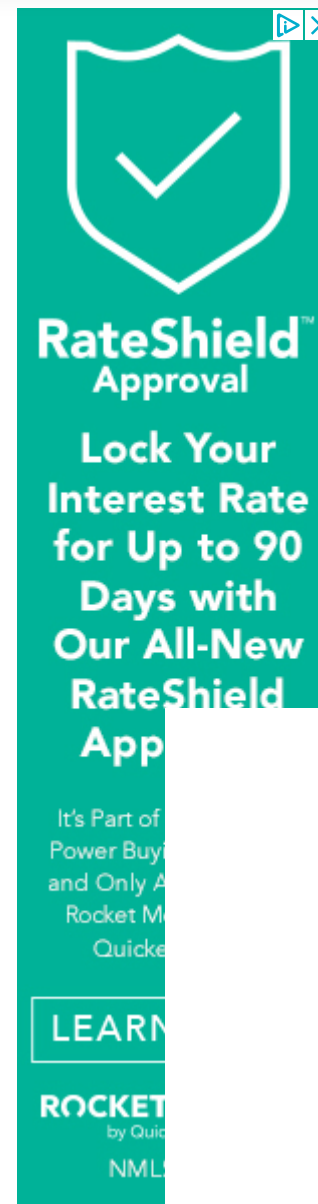
Output:

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3. Using StringBuilder

Another plausible way of converting a char array to String is using StringBuilder in Java. The idea is to iterate over the characters and append each char to a StringBuilder. Finally, call toString() method on the StringBuilder when iterated over all chars.

```
1 // Convert char array to String in Java
2 class Util
3 {
4     public static void main(String[] args)
5     {
6         char[] chars = {'T', 'e', 'c', 'h', 'i', 'e', ' ',
7                         'D', 'e', 'l', 'i', 'g', 'h', 't'};
8
9         StringBuilder sb = new StringBuilder();
10        for (char ch: chars) {
11            sb.append(ch);
12        }
13
14        String string = sb.toString();
15        System.out.println(string);
```



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4. toString() + substring() + Regex

(Not recommended)

The idea here is to get a string representation of the specified array. The string representation consists of a list of the array's elements, enclosed in square brackets ("[]") and all adjacent elements are separated by a comma followed by a space ", ".

We can easily get rid of the square brackets by calling `substring()` function, and comma + space by using `replaceAll()` method.

```
1 import java.util.Arrays;
2
3 // Convert char array to String in Java
4 class Util
5 {
6     public static void main(String[] args)
7     {
8         char[] chars = {'T', 'e', 'c', 'h', 'i', 'e', ' ',
9                         'D', 'e', 'l', 'i', 'g', 'h', 't'};
10
```

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```
14 |
15 |      System.out.println(string);
16 |   }
17 | }
```

[Download](#) [Run Code](#)**Output:**

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★★★★★ (2 votes, average: **5.00** out of 5)

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