

# StringBuilder

1. Challenge: Reverse a string using StringBuilder

Code:

```
public class ReverseString {  
    public static void main(String[] args) {  
        StringBuilder sb = new StringBuilder("Sreevani");  
        sb.reverse();  
        System.out.println("Reversed String: " + sb);  
    }  
}
```

Output:

Reversed String: inaveerS

2. Challenge: Append multiple strings using StringBuilder and print

Code:

```
public class AppendStrings {  
    public static void main(String[] args) {  
        StringBuilder sb = new StringBuilder();  
        sb.append("Hello, ");  
        sb.append("I am ");  
        sb.append("learning Java.");  
        System.out.println(sb.toString());  
    }  
}
```

Output:

Hello, I am learning Java.

3. Challenge: Replace characters in a string using StringBuilder

Code:

```
public class ReplaceCharacters {  
    public static void main(String[] args) {  
        StringBuilder sb = new StringBuilder("Java is fun");  
        sb.setCharAt(5, 's'); // Changing 'i' to 's'  
        sb.setCharAt(6, 'u'); // Changing 's' to 'u'  
        System.out.println(sb.toString());  
    }  
}
```

Output:

Java ss fun

4. Challenge: Insert a word into a string at a specific position.

Code:

```
public class InsertWord {  
    public static void main(String[] args) {  
        StringBuilder sb = new StringBuilder("I Java");  
        sb.insert(2, "love ");  
        System.out.println(sb.toString());  
    }  
}
```

Output:

I love Java

5. Challenge: Delete part of a string using StringBuilder

Code:

```
public class DeletePart {  
    public static void main(String[] args) {  
        StringBuilder sb = new StringBuilder("Welcome to Java  
Programming");  
        sb.delete(11, 16); // Deletes "Java "  
        System.out.println(sb.toString());  
    }  
}
```

Output:

Welcome to Programming