



# Java – StringBuffer

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## StringBuffer Class

**StringBuffer** is a peer class of **String** that provides much of the functionality of strings.

As you know, **String** represents fixed-length, immutable character sequences. In contrast,

**StringBuffer** represents growable and writeable character sequences.

**StringBuffer** may have characters and substrings inserted in the middle or appended to the end. **StringBuffer** will automatically grow to make room for such additions

# StringBuffer Constructors

`StringBuffer( )`

`StringBuffer(int size)`

`StringBuffer(String str)`

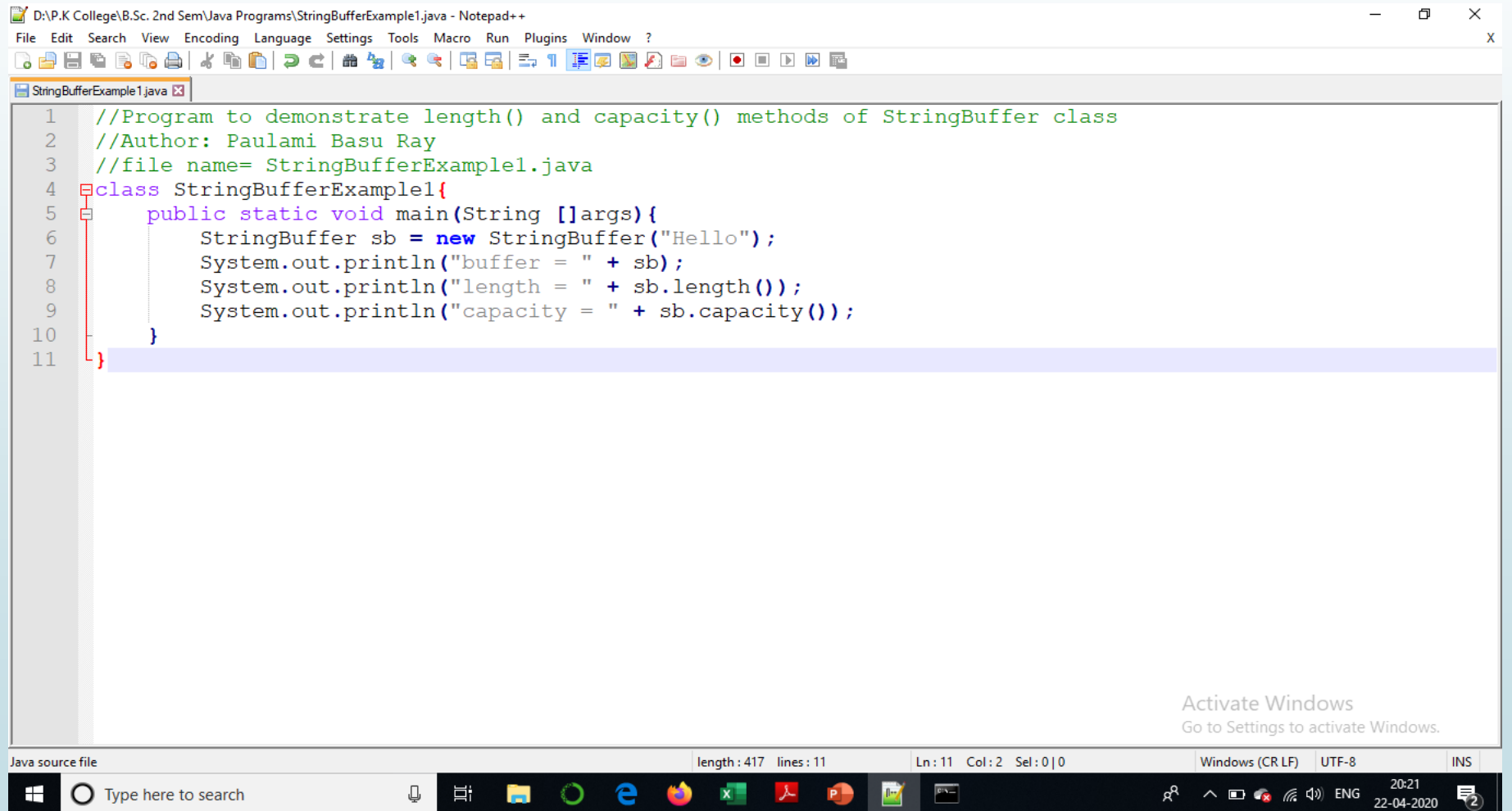
`StringBuffer(CharSequence  
chars)`



# length() and capacity()

- ▶ The current length of a **StringBuffer** can be found via the **length( )** method, while the total
- ▶ allocated capacity can be found through the **capacity( )** method. They have the following
- ▶ General forms:
- ▶ `int length( )`
- ▶ `int capacity( )`

# Sample Program



```
D:\P.K College\B.Sc. 2nd Sem\Java Programs\StringBufferExample1.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
StringBufferExample1.java
1 //Program to demonstrate length() and capacity() methods of StringBuffer class
2 //Author: Paulami Basu Ray
3 //file name= StringBufferExample1.java
4 class StringBufferExample1{
5     public static void main(String []args){
6         StringBuffer sb = new StringBuffer("Hello");
7         System.out.println("buffer = " + sb);
8         System.out.println("length = " + sb.length());
9         System.out.println("capacity = " + sb.capacity());
10    }
11 }
```

Java source file length: 417 lines: 11 Ln: 11 Col: 2 Sel: 0|0 Windows (CR LF) UTF-8 INS

Activate Windows  
Go to Settings to activate Windows.

Type here to search

20:21  
22-04-2020

# Output

cmd Command Prompt

```
D:\P.K College\B.Sc. 2nd Sem\Java Programs>javac StringBufferExample1.java
```

```
D:\P.K College\B.Sc. 2nd Sem\Java Programs>java StringBufferExample1
```

```
buffer = Hello
```

```
length = 5
```

```
capacity = 21
```

```
D:\P.K College\B.Sc. 2nd Sem\Java Programs>_
```

# Another Sample

```
setCharAtDemo.java x
1 //Program to demonstrate setCharAt() and setLength() methods of StringBuffer class
2 //Author: Paulami Basu Ray
3 //file name= setCharAtDemo.java
4
5 class setCharAtDemo {
6     public static void main(String args[]) {
7         StringBuffer sb = new StringBuffer("Hello");
8         System.out.println("buffer before = " + sb);
9         System.out.println("charAt(1) before = " + sb.charAt(1));
10        sb.setCharAt(1, 'i');
11        sb.setLength(2);
12        System.out.println("buffer after = " + sb);
13        System.out.println("charAt(1) after = " + sb.charAt(1));
14    }
15 }
```

# Output

cmd Command Prompt

```
D:\P.K College\B.Sc. 2nd Sem\Java Programs>javac setCharAtDemo.java
```

```
D:\P.K College\B.Sc. 2nd Sem\Java Programs>java setCharAtDemo
```

```
buffer before = Hello
```

```
charAt(1) before = e
```

```
buffer after = Hi
```

```
charAt(1) after = i
```

```
D:\P.K College\B.Sc. 2nd Sem\Java Programs>_
```