



Selenium WebDriver ScreenShots and String

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Agenda

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String Escape Sequences

- `\n` - Creates a new line
- `\t` - Inserts a tab
- `\\` - Prints a backslash
- `\"` - Prints a double quotation mark
- `\'` - Prints a single quotation mark

Example:

```
1  class StringEscapeSequences {
2      public static void main(String[] args) {
3          System.out.println("Hello\nWorld");
4          System.out.println("Hello\tWorld");
5          System.out.println("Hello\\World");
6          System.out.println("Hello\"World");
7          System.out.println("Hello'World");
8      }
9  }
```

String Concatenation

- `+` operator is used to concatenate two strings

Example:

```
1  class StringConcatenation {
2      public static void main(String[] args) {
3
4          // variable at the beginning
5          String firstName = "Mahmud";
6          System.out.println(firstName + " is a trying to learn Java");
7
8          // variable at the end
9          System.out.println("Hello " + firstName);
10
11         // variable in the middle
12         System.out.println("Hello " + firstName + "!");
13     }
14 }
```

String Methods

- `length()` - Returns the length of the string
- `toUpperCase()` - Converts the string to uppercase
- `toLowerCase()` - Converts the string to lowercase
- `charAt(int index)` - Returns the character at the specified index

Example:

```
1  class StringMethods {  
2      public static void main(String[] args) {  
3          String str = "Hello World";  
4          System.out.println(str.length());  
5          System.out.println(str.toUpperCase());  
6          System.out.println(str.toLowerCase());  
7          System.out.println(str.charAt(6));  
8      }  
9  }
```

Why do we need ScreenShots?

- To capture the state of the application at a particular moment
- To debug the test case
- To check the visual appearance of the application
- To check the cross-browser compatibility

WebDriver ScreenShots Dependency

- Dependency: commons-io


Link: <https://mvnrepository.com/artifact/commons-io/commons-io>

```
1 <dependency>
2   <groupId>commons-io</groupId>
3   <artifactId>commons-io</artifactId>
4   <version>2.17.0</version>
5 </dependency>
```

WebDriver ScreenShots Code Example

```
1  import org.apache.commons.io.FileUtils;
2  import org.openqa.selenium.OutputType;
3  import org.openqa.selenium.TakesScreenshot;
4  import org.openqa.selenium.WebDriver;
5  import org.openqa.selenium.chrome.ChromeDriver;
6  import java.io.File;
7  import java.io.IOException;
8
9  public class ScreenShotExample {
10     public static void main(String[] args) {
11         WebDriver driver = new ChromeDriver();
12         driver.get("https://www.google.com");
13         TakesScreenshot screenshot = (TakesScreenshot) driver;
14         try {
15             File source = screenshot.getScreenshotAs(OutputType.FILE);
16             FileUtils.copyFile(source, new File("./Screenshots/screenshot.png"));
17         } catch (IOException e) {
18             System.out.println("Exception while taking screenshot " + e.getMessage());
19         }
20         driver.quit();
21     }
22 }
```


Thank you 

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