

Lab 10: Properties and Methods of String Objects

Cop 2500 Concepts in Computer
Science

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Properties of String Object

- String Object is used to manipulate a stored piece of text.
- Objects have properties – as characteristics of an object.
 - Length – number of characters in the string.
 - Prototype – additional properties and methods that you defined.
- Example:

```
var txt="Hello world!";  
document.write(txt.length);
```
- Output:
12

Methods of String Objects

- Methods are actions that can be applied directly to objects.

- Example:

```
var txt="Hello world!";  
document.write(txt.toUpperCase());
```

- Output:

```
HELLO WORLD!
```

Lab 10 - Part 1

```
<script language="JavaScript">
var str1="String formatting methods!";
document.write("<h3> Part1 </h3>"+"<br>");
document.write("Big: "+str1.big()+"<br>");
document.write("Small: "+str1.small()+"<br>");
document.write("Bold: "+str1.bold()+"<br>");
document.write("Italic: "+str1.italics()+"<br>");
document.write("Fixed: "+str1.fixed()+"<br>");
document.write("Strike: "+str1.strike()+"<br>");
document.write("Fontcolor:
    "+str1.fontcolor("Red")+ "<br>");
document.write("Fontsize: "+str1.fontSize(5)+"<br>");
document.write("Lowercase:
    "+str1.toLowerCase()+"<br>");
document.write("Uppercase:
    "+str1.toUpperCase()+"<br>");
document.write("Subscript: "+str1.sub()+"<br>");
document.write("Superscript: "+str1.sup()+"<br>");
document.write("<hr>");
</script>
```

Part 1

Str1= String Formatting Methods!

Big: String formatting methods!

Small: String formatting methods!

Bold: **String formatting methods!**

Italic: *String formatting methods!*

Fixed: String formatting methods!

Strike: ~~String formatting methods!~~

Fontcolor: **String formatting methods!**

Fontsize: **String formatting methods!**

Lowercase: string formatting methods!

Uppercase: STRING FORMATTING METHODS!

Subscript: String formatting methods!

Superscript: ^{String formatting methods!}

Lab 10 - Part 2

```
var str2="Working with String manipulation method!";
document.write("<h3> Part2 </h3>"+"<br>");
document.write("The first 'm' is at position: "+str2.indexOf("m")+"<br>");
document.write("The last 'm' is at position: "+str2.lastIndexOf("m")+"<br>");

//count number of 't'
var count = 0;
for (i=0;i< str2.length;i++){
    if (str2.charAt(i) == 't'){
        count++;
    }
}
document.write("The number of 't' in this sting 'str2' are: "+count+"<br>")
document.write("The substring from position 8 with length 4 is : "+str2.substr(8,4)+"<br>");
document.write("<hr>");
```

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39		
W	o	r	k	i	n	g		w	i	t	h		S	t	r	i	n	g		m	a	n	i	p	u	l	a	t	i	o	n		m	e	t	h	o	d	!		

The first 'm' is at position: 20

The last 'm' is at position: 33

The number of 't' in this string 'str2' are: 4

The substring from position 8 with length 4 is : with

Lab 10 - Part 3

```
var str3 = new Array(3);  
str3[0] = "Java";  
str3[1] = "Script";  
str3[2] = "Program";
```

```
document.write("<h3> Part3  
</h3>"+"<br>");  
document.write(str3.join(" ") + "<br/>");  
document.write(str3.join(",") + "<br />");  
document.write(str3.join(".") + "<br/>");  
document.write("<hr>");
```

Part 3

Java Script Program
Java,Script,Program
Java.Script.Program



Questions?

- Evaluation Sheets

References:

- <http://jennifermadden.com/javascript/objectsPropertiesMethods.html>
- http://www.w3schools.com/jsref/jsref_obj_string.asp
- <http://www.comptechdoc.org/independent/web/cgi/javamanual/javastring.html>