

```
1 // # Chapter Five
2 /*****
3 # String in JavaScript
4 # What is String
5     JavaScript strings are used for storing and manipulating text.
6     A JavaScript string is zero or more characters written inside quotes.
7 *****/
8 // String Literal
9 var string1 = "A string primitive";
10 var string2 = "Also a string primitive";
11 var string3 = `Yet another string primitive`;
12 /*****
13 Strings can be created as primitives, from string literals,
14 or as objects, using the String() constructor:
15 *****/
16 var number = 10;
17 var string = String(number);
18
19 // Escape Notation
20 // var str = 'This is a \'String\''
21
22 var str = "This is a \nString";
23 console.log(str);
24
25 var str = "This is a \tString";
26 console.log(str);
27
28 var str = "This is a \\String";
29 console.log(str);
30 // And more - Carriage Return \r, Vertical Tab \v, Backspace \b, Form Feed \f
31
32 // Comparison Between Two String
33 var a = "abc";
34 var b = "bcd";
35 console.log(a == b);
36 console.log(a > b);
37 console.log(a < b);
38
39 // JavaScript Uses Lexicographic System to Compare to String
40 // Lexical Order - z,y,x...a | Z,Y,X...A
41 console.log("z" > "Z");
42 console.log("a" > "Z");
43
44 // Comparison String-Number to Number == Number
45 console.log("001" == 1);
46
47 // JavaScript Built in String Methods
48 // concat() Method
49 var x = "I am";
50 var y = " sAiFuL bAppY";
51
52 var z = x.concat(y);
53 console.log(z);
54
55 // substr() Method
56 var m = z.substr(12);
57 console.log(m);
58
59 var n = z.substr(12, 3);
60 console.log(n);
```

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61
62 // Check The Character At (0) To Any Kind of Number
63 console.log(z.charAt(13));
64
65 // Check startsWith and endsWith
66 console.log(z.startsWith("sAiFuL"));
67 console.log(z.endsWith("bAppY"));
68
69 // Trim Methods
70 console.log("      What are you doing, please trim it....      ".trim());
71
72 // Split Methods
73 console.log(z.split(" "));
74
75 // Get Length of a String
76 var str = "Some String";
77 var length = 0;
78
79 while (true) {
80     if (str.charAt(length) == "") {
81         break;
82     } else {
83         length++;
84     }
85 }
86 console.log(length);
87
88 /***** Output *****/
89 bappy@bAppY MINGW64 JavaScript-Note/Stack Learner JS {Note}/5. Chapter_Five (main)
90 $ node string.js
91 This is a
92 String
93 This is a      String
94 This is a \String
95 false
96 false
97 true
98 true
99 true
100 true
101 I am sAiFuL bAppY
102 bAppY
103 bAp
104 A
105 false
106 true
107 What are you doing, please trim it....
108 [ 'I', 'am', 'sAiFuL', 'bAppY' ]
109 11
```