

script.js

```
1  console.clear();
2
3  // Strings in JavaScript: It is a sequence of characters either enclosed in single or double quotes. They are immutable and
   cannot be changed.
4
5  let str = "This is my first string";
6
7  console.log(str);
8
9  // It also includes the space character in the length.
10
11 console.log("The length of the string is: " + str.length);
12
13 // String Search Methods
14
15 /*
16
17 1. indexOf(): It returns the index of the first occurrence of the specified substring in the string.
18
19 2. lastIndexOf(): It returns the index of the last occurrence of the specified substring in the string.
20
21 3. from(): It converts a string into an array of characters.
22
23 4. search(): It returns the index of the first occurrence of the specified substring in the string.
24
25 5. match(): It returns an array of match results and null if no match is found.
26
27 6. matchAll(): It returns an iterator of all match results.
28
29 7. startsWith(): It returns true if the string starts with the specified substring.
30
31 8. endsWith(): It returns true if the string ends with the specified substring.
32
33 9. includes(): It returns true if the string contains the specified substring.
34
35 10. slice(): It extracts a part of the string and returns a new extracted string. It will exclude the last index.
```

```
36
37 11. substring(): It extracts a part of the string and returns a new extracted string. It will exclude the last index. It is
    similar to slice(). The difference is that it allows negative indexes.
38
39 12. at(): It returns the character at the specified index.
40
41 13. charAt(): It returns the character at the specified index. It is similar to at(). The difference is that it does not allow
    negative indexes.
42
43 14. replace(): It replaces the first occurrences of a substring or character with another substring or character.
44
45 15. replaceAll(): It replaces all occurrences of a substring or character with another substring or character.
46
47 16. trim(): It removes all leading and trailing white spaces from a string.
48
49 17. trimStart(): It removes all leading white spaces from a string.
50
51 18. trimEnd(): It removes all trailing white spaces from a string.
52
53 19. toLowerCase(): It converts a string to lowercase.
54
55 20. toUpperCase(): It converts a string to uppercase.
56
57 21. split(): It splits a string into an array of substrings based on the specified separator.
58
59 */
60
61 let myName = "Hello JavaScript, Welcome to World's Best JavaScript Community";
62
63 console.log("The first index of 'a' is: " + myName.indexOf("a")); // 2
64
65 console.log("The last index of 'a' is: " + myName.lastIndexOf("a")); // 17
66
67 console.log(Array.from(myName)); // [h, e, l, l, o, , , J, a, v, a, s, c, r, i, p, t, , , W, e, l, c, o, m, e, , t, o, , W, o,
    r, l, d, 's, B, e, s, t, , J, a, v, a, s, C, o, m, m, u, n, i, t, y]
68
69 console.log("The index of 'JavaScript' is: " + myName.search("JavaScript")); // 6
70
```

```
71 let resultMatch = myName.match("JavaScript"); // [JavaScript]
72
73 console.log(resultMatch);
74
75 let resultMatchAll = myName.matchAll("JavaScript"); // [JavaScript]
76
77 console.log(...resultMatchAll);
78
79 let resultStartsWith = myName.startsWith("Hello"); // true
80
81 console.log(resultStartsWith);
82
83 let resultEndsWith = myName.endsWith("community"); // false
84
85 console.log(resultEndsWith);
86
87 let resultIncludes = myName.includes("JavaScript"); // true
88
89 console.log(resultIncludes);
90
91 let resultSlice = myName.slice(0, 16); // Hello JavaScript
92
93 console.log(resultSlice);
94
95 let resultSubstring = myName.substring(0, 16); // Hello JavaScript
96
97 console.log(resultSubstring);
98
99 let resultAt = myName.at(0); // H
100
101 console.log(resultAt);
102
103 let resultCharAt = myName.charAt(3); // l
104
105 console.log(resultCharAt);
106
107 let resultReplace = myName.replace("JavaScript", "JavaScript Programming"); // Hello JavaScript Programming
108
```

```
109 console.log(resultReplace);
110
111 let resultReplaceAll = myName.replaceAll("JavaScript", "JavaScript Programming"); // Hello JavaScript Programming
112
113 console.log(resultReplaceAll);
114
115 let resultTrim = myName.trim(); // Hello JavaScript, Welcome to World's Best JavaScript Community
116
117 console.log(resultTrim);
118
119 let resultUpperCase = myName.toUpperCase(); // HELLO JAVASCRIPT, WELCOME TO WORLD'S BEST JAVASCRIPT COMMUNITY
120
121 console.log(resultUpperCase);
122
123 let resultLowerCase = myName.toLowerCase(); // hello javascript, welcome to world's best javascript community
124
125 console.log(resultLowerCase);
126
127 let resultSplit = myName.split(" "); // [Hello, JavaScript, Welcome, to, World's, Best, JavaScript, Community]
128
129 console.log(resultSplit);
```