

## Java Script String Methods:

1. `length`: Returns the length of the string.

```
````javascript
let str = "Hello, world!";
console.log(str.length); // Output: 13
````
```

2. `charAt(index)`: Returns the character at the specified index in the string.

```
````javascript
let str = "Hello, world!";
console.log(str.charAt(1)); // Output: e
````
```

3. `charCodeAt(index)`: Returns the Unicode value (ASCII code) of the character at the specified index.

```
````javascript
let str = "Hello, world!";
console.log(str.charCodeAt(0)); // Output: 72 (Unicode for 'H')
````
```

4. `concat(...strings)`: Concatenates the given strings and returns a new string.

```
````javascript
let str1 = "Hello";
let str2 = "world!";
let result = str1.concat(" ", str2);
console.log(result); // Output: Hello, world!
````
```

5. `endsWith(searchString, length)`: Checks whether the string ends with the specified search string.

```
````javascript
let str = "Hello, world!";
console.log(str.endsWith("world!")); // Output: true
````
```

6. `includes(searchString, position)`: Checks whether the string contains the specified search string.

```
````javascript
let str = "Hello, world!";
console.log(str.includes("world")); // Output: true
````
```

7. `indexOf(searchString, fromIndex)`: Returns the index of the first occurrence of the specified search string.

```
```javascript
let str = "Hello, world!";
console.log(str.indexOf("world")); // Output: 7
```
```

8. `lastIndexOf(searchString, fromIndex)`: Returns the index of the last occurrence of the specified search string.

```
```javascript
let str = "Hello, world! Hello!";
console.log(str.lastIndexOf("Hello")); // Output: 14
```
```

9. `match(regex)`: Searches the string for a match using a regular expression and returns the matches.

```
```javascript
let str = "Hello, world!";
let regex = /o/g;
console.log(str.match(regex)); // Output: ["o", "o"]
```
```

10. `matchAll(regex)`: Returns an iterator of all results matching the regular expression.

```
```javascript
let str = "Hello, world!";
let regex = /o/g;
let matches = str.matchAll(regex);
for (const match of matches) {
  console.log(match);
}
// Output: ["o"], ["o"]
```
```

11. `normalize([form])`: Returns a Unicode normalized string according to the specified form.

```
```javascript
let str = "\u0041\u0301"; // "A" + combining acute accent
console.log(str.normalize("NFC")); // Output: Á
```
```

12. `padEnd(targetLength, padString)`: Pads the end of the string with another string up to the target length.

```
```javascript
let str = "Hello";
console.log(str.padEnd(10, "!")); // Output: Hello!!!!!
```
```

...

13. `padStart(targetLength, padString)`: Pads the start of the string with another string up to the target length.

```
```javascript
let str = "Hello";
console.log(str.padStart(10, "!")); // Output: !!!!!Hello
```
```

14. `repeat(count)`: Repeats the string a specified number of times.

```
```javascript
let str = "Hi";
console.log(str.repeat(3)); // Output: HiHiHi
```
```

15. `replace(searchValue, replaceValue)`: Replaces occurrences of the search value with the replace value.

```
```javascript
let str = "Hello, world!";
console.log(str.replace("world", "everyone")); // Output: Hello, everyone!
```
```

16. `replaceAll(searchValue, replaceValue)`: Replaces all occurrences of the search value with the replace value.

```
```javascript
let str = "Hello, world! Hello!";
console.log(str.replaceAll("Hello", "Hi")); // Output: Hi, world! Hi!
```
```

17. `search(regex)`: Searches the string for a match using a regular expression and returns the index of the first match.

```
```javascript
let str = "Hello, world!";
console.log(str.search(/world/)); // Output: 7
```
```

18. `slice(beginIndex, endIndex)`: Extracts a section of the string and returns it as a new string.

```
```javascript
let str = "Hello, world!";
console.log(str.slice(7, 12)); // Output: world
```
```

19. `split(separator, limit)`: Splits the string into an array using the specified separator.

```
```javascript
let str = "Hello, world!";
console.log(str.split(", ")); // Output: ["Hello", "world!"]
```
```

20. `startsWith(searchString, position)`: Checks whether the string starts with the specified search string.

```
```javascript
let str = "Hello, world!";
console.log(str.startsWith("Hello")); // Output: true
```
```

21. `substring(indexStart, indexEnd)`: Extracts a substring from the string.

```
```javascript
let str = "Hello, world!";
console.log(str.substring(7, 12)); // Output: world
```
```

22. `toLowerCase()`: Converts the string to lowercase.

```
```javascript
let str = "Hello, World!";
console.log(str.toLowerCase()); // Output: hello, world!
```
```

23. `toUpperCase()`: Converts the string to uppercase.

```
```javascript
let str = "Hello, World!";
console.log(str.toUpperCase()); // Output: HELLO, WORLD!
```
```

24. `toString()`: Returns the string representation of the string object.

```
```javascript
let strObj = new String("Hello, world!");
console.log(strObj.toString()); // Output: Hello, world!
```
```

25. `trim()`: Removes whitespace from both ends of the string.

```
```javascript
let str = " Hello, world! ";
console.log(str.trim()); // Output: Hello, world!
```
```

26. `trimStart()`: Removes whitespace from the start of the string.

```
```javascript
```

```
let str = " Hello, world!";  
console.log(str.trimStart()); // Output: Hello, world!  
...
```

27. `trimEnd()`: Removes whitespace from the end of the string.

```
```javascript  
let str = "Hello, world! ";  
console.log(str.trimEnd()); // Output: Hello, world!  
...
```

28. `valueOf()`: Returns the primitive value of the string object.

```
```javascript  
let strObj = new String("Hello, world!");  
console.log(strObj.valueOf()); // Output: Hello, world!  
...
```