

Date: 17-06-24

JavaScript:-

1. Strings

- A JavaScript string is zero or more characters written inside the quotes.
- The String object is used to represent and manipulate a sequence of characters.
- String can be write in Single ' ' quotes and double " " quotes.
- If we declare new variables with strings and concatenate them with a '+' sign.
- Template Literals are written under "`" backtick sign.
- \$ symbol is used here to pick that particular string from the variable.
- The main benefit of using this method is, we can use both double quotes or single quotes to identify the strings.
- To extract the number of characters in a particular string we can take the help of length function. Syntax- `var len = name.length;`
`console.log('Length of name is ${len}')`
- "\n" is an escape sequence that is used to take the string after it in the next line. It's a **new line** character.

2. String Functions

- These functions are really helpful in extracting the strings either from DOM manipulation or from APIs or AJAX sources.
- Syntax-
`var str = "This is a string";`
`console.log(str);`
- those functions of strings by which we can either modify, alter, slice, break, etc. the strings.
- It is to locate the position of any word in the string.
Syntax-
`// First occurrence of a substring`
`var position = str.indexOf('is');`
`console.log(position)`
- **IndexOf()** function is used here to locate the position of any string It gives the first occurrence of the substring.
- To get the position of the last substring, we can use the function **lastIndexOf()**.
- **Syntax-** // Last occurrence of a substring
`position = str.lastIndexOf('is');`
`console.log(position)`
- To get a substring from a string we can use the slice function.
- **Syntax-**
`var substr = str.slice(1,7);`
`console.log(substr)`
- We can also replace a particular string to another string with the help of **replace()** function.
- Syntax-
`var replaced = str.replace('string', 'Harry');`
`console.log(str)`
`console.log(replaced)`

- We can also convert the whole string to an uppercase or lowercase letters.
- Syntax-


```
console.log(str.toUpperCase());
console.log(str.toLowerCase());
```
- To concat any two strings, we can take the help of `concat()` function.
- Syntax-


```
var newString = str.concat('New String')
console.log(newString)
```
- To remove all the white spaces in the string, we can use `Trim()` function.
- Syntax-


```
var strWithWhitespaces = " this contains    whitespaces ";
console.log(strWithWhitespaces)
console.log(strWithWhitespaces.trim())
```
- To extract any character from a string, we can use `charAt()` function.
- Syntax-


```
var char2 = str.charAt(2);
console.log(char2)
```