

## 1. Invoke Function

The code inside a function is executed when the function is invoke. The code inside a function in not executed when the function is defined

```
> function calculation(a , b) {  
  }  
undefined  
> function calculation(a , b) {  
  return a / b;  
}  
undefined  
> calculation(10,5)  
2
```

## 2. Break Statement

The **break** statement can also be used to jump out of a loop.

```
<h2>JavaScript Loops</h2>  
  
<p>A loop with a <b>break</b> statement.</p>  
  
<p id="demo"></p>  
  
<script>  
let text = "";  
for (let i = 0; i < 10; i++) {  
  if (i === 3) { break; }  
  text += "The number is " + i + "<br>";  
}  
  
document.getElementById("demo").innerHTML = text;  
</script>
```

```
The number is 0  
The number is 1  
The number is 2
```

## Continue Statement

The **continue** statement breaks one iteration (in the loop), if a specified condition occurs, and continues with the next iteration in the loop.

```
<h2>JavaScript Loops</h2>  
  
<p>A loop with a <b>continue</b> statement.</p>  
  
<p>A loop which will skip the step where i = 3.</p>  
  
<p id="demo"></p>  
  
<script>  
let text = "";  
for (let i = 0; i < 10; i++) {  
  if (i === 3) { continue; }  
  text += "The number is " + i + "<br>";  
}  
  
document.getElementById("demo").innerHTML = text;  
</script>
```

A loop which will skip the step where i = 3.

```
The number is 0  
The number is 1  
The number is 2  
The number is 4  
The number is 5  
The number is 6  
The number is 7  
The number is 8  
The number is 9
```

### 3. Types of Function

#### Named Function:

**Named function** is the function that we *define* it in the code and then call it whenever we need it by referencing its *name and passing some arguments* to it. Named functions are useful if we need to call a function **many times** to pass **different values** to it or run it several times.

```
function oddOrEven(number) {  
  if (number%2 == 0) {  
    return "Number is even"  
  } else {  
    return "Number is odd"  
  }  
}
```

#### Anonymous Function

The anonymous functions don't have **names**. They need to be tied to something: *variable or an event to run*.

```
let oddOrEven = function(number) {  
  if (number%2 == 0) {  
    return "Number is even"  
  } else {  
    return "Number is odd"  
  }  
}
```

#### Immediately Invoked Function

**Invoked function** expression runs as soon as the **browser encounters** it. The benefit of this function is that it **runs immediately** where it's located in the code and produces a *direct output*. That means it is **unaffected** by code which appears further down in the script which can be useful.

```
let message = (function () {
  let name = "Jon Snow";
  return name;
})();
// Immediately creates the output:
result; // "Jon Snow"
```

## 4.String Methods

### 1. at()

It takes Integer value and returns a new String. This methods allows for positive and negative Integers. Negative integers count back from the last string characters.

It is same As **CharAt()** methods.

```
var sentence = 'Hai, How are you?'
undefined
var storeData = sentence.at(6);
undefined
storeData
'o'
```

### 2. charCodeAt()

It returns an integer value between 0 to 65535 representing UTF-16 Value. (ASCII Value)

```
> var sentence = 'Hai, How are you?'
< undefined
> var storeData = sentence.charCodeAt('o');
< undefined
> storeData
< 72
```

### 3. concat()

It returns concatenates the string arguments to the calling string and returns a new string.

```
> var str_1 = 'I learn';  
< undefined  
-----  
> var str_2 = 'Javascript';  
< undefined  
-----  
> var addString = str_1 . concat('',str_2);  
< undefined  
-----  
> addString  
< 'I learnJavascript'  
-----  
> var addString = str_1 . concat(', ',str_2);  
< undefined  
-----  
> addString  
< 'I learn, Javascript'
```

### 4. endsWith()

The Methods used to string ends with the character of a specified string, it return True or False statement. (string, length)

```
var addString = str_1 . concat(', ',str_2);  
undefined  
-----  
addString.endsWith('Javascript');  
true  
-----  
addString.endsWith('Javascript',15);  
false
```

### 5. fromCharCode()

The result is string created from the specified sequence of UTF-16 code units.

```
var values = (99);  
undefined  
String.fromCharCode(values);  
'c'  
var values = (114);  
undefined  
String.fromCharCode(values);  
'r'
```

## 6.includes()

It performs case-sensitive search to determine whether one string may be found within another string, returning true or false condition.

```
var word = 'Js is Behaviour Layer';  
undefined  
word.includes('Js');  
true  
word.includes('and');  
false
```

## 7.indexOf()

Returns Index position.

```
> var check = 'The sunrise is Beautiful!!';  
> undefined  
> check.indexOf('sunrise');  
> 4
```

## 8.padEnd()

String reaches a given length. The padding is applied from the end of the current string.

```
var applyStar = 'Hello, World';  
undefined  
applyStar.padEnd(20, '*');  
'Hello, World*****'
```

## 9.padStart()

String reaches a given length. The padding is applied from the start of the current string.

```
var applyStar = 'Hello, World';  
undefined  
applyStar.padEnd(20, '*');  
'Hello, World*****'  
applyStar.padStart(20, '*');  
'*****Hello, World'
```

## 10.repeat()

returns a new string which contains the specified number of copies of the string on which it was called, concatenated together.

```
var happy = 'we are!!';  
undefined  
happy.repeat(5);  
'we are!!we are!!we are!!we are!!we are!!'  
undefined
```

## 11. replace()

It return replace the given string. The changes included in (old string) given string.

```
var change = 'The tiger is king of Forest!!';  
undefined  
change.replace('tiger', 'lion');  
'The lion is king of Forest!!'
```

## 12. replaceall()

It same as replace() method.

```
var string = 'The quick brown fox jumps over the lazy dog. If the dog  
reacted, was it really lazy?';  
undefined  
string.replaceAll('dog', 'cat');  
'The quick brown fox jumps over the lazy cat. If the cat reacted, was it rea  
lly lazy?'
```

### 13. search()

method executes a search for a match between a regular expression and this [String](#) object.

```
var find = 'Fabevy Technology, Welcome all';  
undefined  
find.search('Welcome');  
19
```

### 14. slice()

This method extracts a section of a string and returns it as a new string, without modifying the original string.

```
var word = 'American Standard Code for Information and Interchange';  
undefined  
word.slice(20);  
'de for Information and Interchange'  
word.slice(4,9);  
'ican '  
word.slice(-4,-2);  
'an'  
word.slice(-5);  
'hange'
```

### 16.startsWith()

It returns string begins with the characters of a specified string, returning true or false statements. (word, position)

```
var course = 'I am Developer...!!';  
undefined  
course.startsWith('I')  
true  
course.startsWith('am')  
false
```

## 17. substring()

It part of the string between start and end index value, it is saame as slice.

```
> var browsers = 'Google Chrome';  
undefined  
browsers.substring(5);  
'e Chrome'  
browsers.substring(3,9);  
'gle Ch'
```

## 18. toString()

It representing a string of the specified object.

```
var phones = 'samsung';  
undefined  
phones.toString();  
'samsung'
```

## 19. toUpperCase()

The Result is an Uppercase model.

```
var device = 'I have Mac Book Pro';  
undefined  
device.toUpperCase();  
'I HAVE MAC BOOK PRO'
```

## 20. trim()

It return removes whitespaces from both ends, without modifying a original string.It is Include all characters (space, tab,and etc).



```
var sentence = '   ReactJs is Very Important   ';  
undefined  
sentence.trim();  
'ReactJs is Very Important'
```

## 21. trimEnd()

This method removes whitespaces from the end of a string.

```
var sentence = '   ReactJs is Very Important   ';  
undefined  
sentence.trimEnd();  
'   ReactJs is Very Important'
```

## 22. trimStart()

This method removes whitespaces from the beginning of a string.

```
var sentence = '   ReactJs is Very Important   ';  
undefined  
sentence.trimStart();  
'ReactJs is Very Important   '  
sentence.trimRight();  
'   ReactJs is Very Important'  
sentence.trimLeft();  
'ReactJs is Very Important   '
```

## 23. valueOf()

It return primitive value of a string.

```
var sentence = '   ReactJs is Very Important   ';  
undefined  
sentence.valueOf()  
'   ReactJs is Very Important   '  
,
```

## 6. Ternary operator

The conditional (ternary) operator is the only JavaScript operator that takes three operands: a condition followed by a question mark (`?`), then an expression to execute if the condition is [truthy](#) followed by a colon (`:`), and finally the expression to execute if the condition is [falsy](#). This operator is frequently used as an alternative to an [if...else](#) statement.

```
function ternary(value){  
    return value ? 10 : 20;  
}
```

undefined

---

```
ternary(true)
```

10

---

```
ternary(false)
```

20

---

```
ternary(null)
```

20

---