JAVASCRIPT CHEATSHEETS

How to add JavaScript

On-page JavaScript

Adding internal JavaScript to HTML

<script> //JS code goes here </script>

External JavaScript

Adding external JavaScript to HTML

<script src="script.js"></script>

JS Output

console.log("Hello, World!!");

JSAlert

JavaScript alert() method displays a pop-up alert box on the browser with a specified message such as text etc.,

alert("Hello, World!!");

Operators

An operator is a special symbol in JavaScript that performs operations on operands.

Arithmetic Operators

The assignment operators are: +, -, *, /, %, ++, --

```
Let x = 6;
let y = 4;

console.log('x + y = ', x + y);
console.log('x - y = ', x - y);
console.log('x * y = ', x * y);
console.log('x / y = ', x / y);
```

Assignment Operators

The assignment operators are: =, +=, -=, *=, /=

```
console.log("Hello, World!!");
```

ComparisonOperators

The comparison operators are: ==, ===, !=, !==, >, <, >=, <=

```
Let x = 5;
let y = 5;

console.log(x == y);
console.log(x!= y);
console.log(x > y);
console.log(x >= y);
console.log(x < y);
console.log(x < y);</pre>
```

Logical Operators

The logical operators are: && (AND) , | | (OR) , and! (NOT)

```
Let x = 5;
let y = 5;

console.log(x&&y);
console.log(x||y);
```

Conditional Statements

Conditional statements are used to perform operations based on some conditions.

If Statement

The if statement is used to execute a block of code if a given condition is true.

```
if(condition){
   // block of code to be executed if the condition is true
}
```

If...else statement

The If...else statement is used to execute a block of code if a specified condition is true and another block of code if the condition is false.

```
if(condition){
   // block of code to be executed if the condition is true
}else{
   // block of code to be executed if the condition is false
}
```

Ifelseladder

The "if-else ladder" is a control structure in JavaScript that allows you to execute a different block of code depending on multiple conditions.

```
if(condition) {
    // block of code to be executed if condition1 is true
}else if(condition2) {
    // block of code to be executed if the condition1 is false and
condition2 is true
}else {
    // block of code to be executed if the condition 1 is false and
condition2 is false
}
```

Switch Statement

The "switch" statement in JavaScript is another control structure that allows you to execute a different block of code depending on a specific value.

```
switch(expression) {
  case value 1:
    // block of code
    break;
  Case value 2:
    // block of code
    break;
  Case value 3:
    // block of code
    break;
  default:
    // block of code
}
```

Loops

Loops are used to execute a block of code until the specified condition is met.

For Loop

A for loop In JavaScript is used to execute a piece of code a specified number of times.

```
for(initialization; testExpression; increment/decrement) {
   // block of code
}
```

Example:

```
Let x = 5;
for (let i = 1; i <= 5; i++) {
   console.log("Hello JavaScript");
}</pre>
```

For Loop

A for loop In JavaScript is used to execute a piece of code a specified number of times.

```
while(condition){
   // block of code
}
```

Example:

```
Let i = 1;
while (i <= 8) {
   console.log(i);
   i++;
}</pre>
```

Strings

A string in JavaScript is a primitive data type that represents a sequence of characters. It is enclosed by single quotes ("), double quotes (""),or backticks (").

```
let name1 = "Peter";
let name2 = 'Perker';
let greeting = `Hello${name}!`;
```

String Methods

length

The length method returns the length of a string.

```
Let str = "Hello JavaScript";
console.log(str.length);
```

concat

The concat() method is used to concatenate two or more strings.

```
Let str1 = "Hello";
let str2 = " JavaScript";
console.log(str1.concat(str2));
```

indexof

The indexOf() method is used to find the indexof a specific character in a string.

```
let str = "Hello JavaScript";
console.log(str.indexOf("J"));
```

replace

The replace() method replaces a string with another string.

```
let str = "Hello JavaScript";
console.log(str.replace("Hello", "I Love"));
```

Number

Numbers are a fundamental data type in JavaScript that represents numerical values. They can be either integer or floating-point numbers.

```
let x = 4;
let y = 4.13;
```

Arrays

Arrays in JavaScript area fundamental data structure used to store multiple values in a single variable.

Example:

```
Let cars = ["Thar", "Scorpio", "BMW", "Ferrari"];
```

Array Methods

push

The push() method is used to add an element to the end of an array.

```
Let myArr = ["Thar", "Scorpio", "Ferrari"];
myArr.push("Audi");
console.log(myArr);
```

pop

The pop() method is used to remove the last element of an array.

```
Let myArr = ["Thar", "Scorpio", "Ferrari"];
myArr.pop();
console.log(myArr);
```

Date

The Date object in JavaScript is used to interact with dates and times. You can create a new Date object to represent either the current date and time or a specific date and time.

Example:

```
Let currentDate = new Date();
console.log(currentDate);
```

Date Methods

Method	Description
getDate()	Gets the day of the month(1-31) according
	To local time
getFullYear()	Gets the year according to local time
getMonth()	Gets the month, from 0 to 11 according to
i i	local time
setDate()	Sets the day of the month according to
	local time
setFullYear()	Sets the full year according to local time
setMonth()	Sets the month according to local time

Example:

```
let date = new Date();
let day = date.getDate();
console.log(day);

let date = new Date();
let year = date.getFullYear();
console.log(year);

let date = new Date();
let month = date.getMonth() + 1;
console.log(month);

let date = new Date();
date.setDate(26);
let D = date.getDate();
console.log(D);
```

Function

JavaScript Function syntax

```
function nameOfFunction(){
    //function body
}
```

Mouse Events

click

Worked when an element is clicked

```
element.addEventListener('click',()=>{
    //Code to be executed when the event is fired
});
```

oncontextmenu

Worked when an element is right-clicked

```
element.addEventListener('contextmenu',()=> {
    //Code to be executed when the event is fired
});
```

Keyboard Events

keydown

Worked when the user is pressing a key on the keyboard

```
element.addEventListener('keydown',()=>{
    //Code to be executed when the event is fired
});
```

keyup

Worked when the user releases a key on the keyboard

```
element.addEventListener('keyup',()=>{
    //Code to be executed when the event is fired
});
```

Query/GetElements

querySelector

Selector to select first matching element

```
document.querySelector('css-selectors')
```

querySelectorAll

A selector to select all matching elements

```
document.querySelectorAll('css-selectors',...)
```

getElementsByClassName

A selector to select all matching elements

```
document.getElementsByClassName('class-name')
```

GetElementbyId

Select an element by its id

document.getElementbyId('Id')