**JavaScript**

Frequently Asked Questions

1. What is JavaScript?

JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

The general-purpose core of the language has been embedded in Netscape, Internet Explorer, and other web browsers.

2. What are the advantages of using JavaScript?

Advantages of using JavaScript are:

* **Less server interaction −** You can validate user input before sending the page off to the server. This saves server traffic, which means less load on your server.
* **Immediate feedback to the visitors −** They don't have to wait for a page reload to see if they have forgotten to enter something.
* **Increased interactivity −** You can create interfaces that react when the user hovers over them with a mouse or activates them via the keyboard.
* **Richer interfaces −** You can use JavaScript to include such items as drag-and-drop components and sliders to give a Rich Interface to your site visitors.

3. What are disadvantages of using JavaScript?

We can not treat JavaScript as a full fledged programming language. It lacks the following important features −

* Client-side JavaScript does not allow the reading or writing of files. This has been kept for security reason.
* JavaScript can not be used for Networking applications because there is no such support available.
* JavaScript doesn't have any multithreading or multiprocess capabilities.

### 4. How to use external JavaScript file?

I am assuming that ‘js’ file name is hello.js, place the following script tag inside the head tag.

**<script** type="text/javascript" src="hello.js"**></script>**

5. How can you create an Object in JavaScript?

JavaScript supports Object concept very well. You can create an object using the object literal as follows −

var emp = {

name: "Barath",

age: 30

};

6. How can you read properties of an Object in JavaScript?

You can write and read properties of an object using the dot notation as follows −

// Getting object properties

emp.name // ==> Barath

emp.age // ==> 30

// Setting object properties

emp.name = "Darshan" // <== Darshan

emp.age = 28 // <== 28

7. How can you create an Array in JavaScript and how to read array elements?

Define arrays using the array literal as follows −

var x = [];

var y = [1, 2, 3, 4, 5];

An array has a length property that is useful for iteration. We can read elements of an array as follows −

var x = [1, 2, 3, 4, 5];

for (var i = 0; i < x.length; i++) {

// Do something with x[i]

}

8. How to define a anonymous function? Can you assign a anonymous function to a variable? Can you pass a anonymous function as an argument to another function?

An anonymous function can be defined in similar way as a normal function but it would not have any name. Yes! An anonymous function can be assigned to a variable.

For Example:

var z = function(x, y) {

if ((y \* (x / 100)) < 1) {

return (x + Math.ceil(y \* (x / 100))); }

else if ((y \* (x / 100)) > 1) {

return (x + Math.round(y \* (x / 100))); }

else {

return 0; }

Yes! An anonymous function can be passed as an argument to another function.

9. How can you get the type of arguments passed to a function?

Using typeof operator, we can get the type of arguments passed to a function. For example −

function func(x){

console.log(typeof x, arguments.length);

}

func(); //==> "undefined", 0

func(1); //==> "number", 1

func("1", "2", "3"); //==> "string", 3

10. What is the purpose of 'this' operator in JavaScript?

JavaScript famous keyword ‘this’ always refers to the current context.

11. What is callback?

A callback is a plain JavaScript function passed to some method as an argument or option. Some callbacks are just events, called to give the user a chance to react when a certain state is triggered.

12. What is closure?

Closures are created whenever a variable that is defined outside the current scope is accessed from within some inner scope.

13. Which built-in method calls a function for each element in the array?

forEach() method calls a function for each element in the array.

14. Which built-in method returns the string representation of the number's value?  
 toString() method returns the string representation of the number's value.

15. What typeof returns for a null value?

It returns "object".

16. How to print a web page using javascript?

JavaScript helps you to implement this functionality using print function of window object. The JavaScript print function window.print() will print the current web page when executed.

### 17. What is the use of window object?

The window object is automatically created by the browser that represents a window of a browser.

It is used to display the popup dialog box such as alert dialog box, confirm dialog box, input dialog box etc.

### 18. What is the use of history object?

The history object of browser can be used to switch to history pages such as back and forward from current page or another page. There are three methods of history object.

1. history.back()
2. history.forward()
3. history.go(number): number may be positive for forward, negative for backward.

### 19. What does the isNaN() function?

The isNan() function returns true if the variable value is not a number.

### 20. Difference between Client side JavaScript and Server side JavaScript?

**Client side JavaScript** comprises the basic language and predefined objects which are relevant to running java script in a browser. The client side JavaScript is embedded directly by in the HTML pages. This script is interpreted by the browser at run time.

**Server side JavaScript** also resembles like client side java script. It has relevant java script which is to run in a server. The server side JavaScript are deployed only after compilation.

21. How to set the cursor to wait in JavaScript?

The cursor can be set to wait in JavaScript by using the property "cursor". The following example illustrates the usage:

**<script>**

window.document.body.style.cursor = "wait";

**</script>**  

### 22. What are the pop up boxes available in JavaScript?

* Alert Box
* Confirm Box
* Prompt Box

### 23. How to change the background color of HTML document using JavaScript?

**<script** type="text/javascript"**>**

document.body.bgColor="blue";

**</script>**