

1. What is JavaScript?

JavaScript is a scripting language most often used for client-side web development.

2. What is the difference between JavaScript and Jscript?

Both JavaScript and Jscript are almost similar. JavaScript was developed by Netscape. Microsoft reverse engineered Javascript and called it JScript.

3. Is JavaScript case sensitive?

Yes! Javascript is case sensitive. A function getElementByld is not the same as getElementbyID.

4. What are the data types used in JavaScript?

- String
- Number
- Boolean
- Function
- Object
- Null
- Undefined

5. What is the difference between “==” and “===”?

“==” checks equality only,

“===” checks for equality as well as the type.

6. How to create arrays in JavaScript?

There are two ways to create array in JavaScript like other languages.

- The first way to create array
`var names = new Array ();`
`names [0] = "Vikas";`
`names [1] = "Ashish";`
`names [2] = "Nikhil";`
- The second way to create array
`var names = new Array ("Vikas", "Ashish", "Nikhil");`

7. If an array with name as "names" contain three elements, then how will you print the third element of this array?

Print third array element document. Write `(names [2]);`

8. What is the use of Math Object in JavaScript?

The math object provides you properties and methods for mathematical constants and functions.

Example:

```
var x = Math.PI; // Returns PI
var y = Math.sqrt(16); // Returns the square root of 16
var z = Math.sin (90); Returns the sine of 90
```



9. What do you understand by this keyword in JavaScript?

This keyword is reference variable that refers to the current object

10. What does "1"+2+4 evaluate to?

Since 1 is a string, everything is a string, so the result is 124.

11. What does 3+4+"7" evaluate to?

Since 3 and 4 are integers, this is number arithmetic, since 7 is a string, it is concatenation, so 77 is the result.

12. What looping structures are there in JavaScript?

for, while, do-while loops

13. What is an object in JavaScript, give an example?

An object is just a container for a collection of named values.

Example:

```
var man = new Object();  
man.name = 'Vikas Ahlawat';  
man.living = true;  
man.age = 27;.
```

14. Name any two JavaScript functions which are used to convert nonnumeric values into numbers?

- Number()
- parseInt()
- parseFloat()

15. How you will write three dimensional array?

```
var myArray = [ [ [ ] ] ];
```

16. Does JavaScript Support automatic type conversion, If yes give example.

Yes! Javascript support automatic type conversion. We should take advantage of it, It is most common way of type conversion used by Javascript developers

Example:

```
var s = '5';  
var a = s*1;  
var b = +s;  
typeof(s); //"string"  
typeof(a); //"number"  
typeof(b); //"number"
```

17. How do you change the style/class on any element using JavaScript?

```
document.getElementById("myText").style.fontSize = "10";
```

18. What are the Boolean operators supported by JavaScript?

- And Operator: &&
- Or Operator: ||
- Not Operator: !

19. What is NaN property in JavaScript?

NaN property represents the “Not-a-Number” value. It indicates a value that is not a legal number. Type of NaN will return a Number.

To check if a value is NaN, we use the `isNaN()` function,

Example:

```
isNaN("Hello") // Returns true  
isNaN(345) // Returns false
```

20. What is the DOM?

DOM stands for the Document Object Model. Dom defines a standard for accessing the document. It is a platform that allows to dynamically access and update the content or structure or style of the document.

21. What would be the output of the following statements?

```
var object1 = { same: 'same' };  
var object2 = { same: 'same' };  
console.log (object1 === object2);
```

false, JavaScript does not care that they are identical and of the same object type. When comparing complex objects, they are equal only when they reference the same object (i.e., have the same address). Two variables containing identical objects are not equal to each other since they do not actually point at the same object.

22. How to use external JavaScript file?

```
<script type="text/javascript" src="message.js"></script>
```

23. How to write a comment in JavaScript?

There are two types of comments in JavaScript.

- Single Line Comment: It is represented by `//` (double forward slash)
- Multi-Line Comment: Slash represents it with asterisk symbol as `/* write comment here */`

24. How to create a function in JavaScript?

To create a function in JavaScript, follow the following syntax.

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

25. How to write normal text code using JavaScript dynamically?

The inner Text property is used to write the simple text using JavaScript dynamically.

Example:

```
document.getElementById('mylocation').innerText="This is text using JavaScript";
```

26. What is the difference between undefined value and null value?

- **Undefined value:** A value that is not defined and has no keyword is known as undefined value.

Example:

```
int number;//Here, a number has an undefined value.
```

- **Null value:** A value that is explicitly specified by the keyword "null" is known as a null value.

Example:

```
String str=null;//Here, str has a null value.
```

27. Are Java and JavaScript same?

No, Java and JavaScript are the two different languages. Java is a robust, secured and object-oriented programming language whereas JavaScript is a client-side scripting language with some limitations.

28. What is the use of a Date object in JavaScript?

The JavaScript date object can be used to get a year, month and day. You can display a timer on the webpage by the help of JavaScript date object.

29. What is a prompt box in JavaScript?

A prompt box is a box which allows the user to enter input by providing a text box. The prompt() method displays a dialog box that prompts the visitor for input.

30. What are the uses of DOM?

- DOM can change all html element in the webpage.
- DOM can change all HTML attributes in the webpage.
- DOM can change all css style in the webpage.
- DOM can also add new html elements and attribute as well as it removes html elements and attributes.