**JAVASCRIPT BASIC & DOM**

1. What is JavaScript?

->Javascript is a cross-platform,object-oriented scripting language used to make webpages interactive (e.g., having complex animations, clickable buttons, popup menus, etc.).

2. What is the use of isNaN function?

-> The isNaN() function in JavaScript is used to determine whether a value is "Not-A-Number" (NaN) or not. NaN is a special value that represents an unrepresentable value resulting from an invalid mathematical operation, such as dividing zero by zero or converting a string that cannot be parsed into a number.

->Exmple:-

isNaN(NaN); // true

isNaN(123); // false, 123 is a valid number

isNaN('hello'); // true, 'hello' cannot be converted to a number

isNaN('123'); // false, '123' can be converted to the number 123

isNaN(true);

// false, true is converted to 1, which is a valid number.

3. What is negative Infinity?

-> It is a special value that is lower than any other number.It’s often used to represent values that are smaller than any often other possible numerical value.

Example:-

Console.log(Number.NEGETIVE\_INFINITY);

//output:- -Infinity

Console.log(Number.NEGETIVE\_INFINITY<1);

//output:- true

4.Which company developed JavaScript?

->Javascript was developed by Netscape Communications corporation,with Brendan Eich being the primary creator.It was originally named Mocha, then briefly LiveScript, before finally being renamed javascript.

6. What are undeclared and undefined variables?

->1.**Undefined Variables**: -

An **undefined** variable occurs when a variable has been **declared** (using var, let, or const) but hasn’t been assigned any value.

->It’s important to note that **undefined** is not a keyword; it simply indicates that the variable exists but lacks a value.

->Example:

let geek; // Declared but not assigned a value

console.log(geek); // Output: undefined

**2.Undeclared Variables**:

->An undeclared variable occurs when we try to access a variable that hasn’t been initialized or declared earlier using var or const.

Console.log(x): //x is not defined

->The scope of undeclared variables is always global.

->If we use the typeof operator to check the value of an undeclared variable, we will encounter a runtime error with the return value as “undefined.”

->Example:

7. What is the difference between ViewState and SessionState?

->

|  |  |
| --- | --- |
| ViewState | SessionState |
| * View state management is on the client side. | * Session state management is on the server side. |
| * Data is accessible within the same web page. | * Data is accessible from other web pages of the website. |
| * Loss of information occurs when different web page is loaded. | * Loss of information occurs due to timeout. |
| * Data is stored in hidden field of the same web page. | * Data is stored in sessions and cookies. |
| * It’s less secure. | * It’s more secure. |

8. What is === operator?

->the === operator is the strict equality operator. It checks whether the operands are equal in value and type,without performing type correction.

For example:-

<script>

Console.log(5===5);//output: true

Console.log(5===’5’)//output:false

</script>

9. How can the style/class of an element be changed?

->In javascript,you can change the style or CSS of an element by accessing its ‘style’ property and setting specific CSS properties.

10. How to read and write a file using JavaScript?

->The fs.readFile() and rs.writeFile() methods are used to read and write of a file using javascript. The file is read using fs.readFile() function,which is an inbuilt method.This technique reads the full file into memory and stores it in a buffer.

11. What are all the looping structures in JavaScript?

->1.for loop:-Executes a block of code a specified number of times.

2.while loop:- Executes a block of code as long as a specified condition is true.

3.do… while loop:- Similar to the while loop,but the condition is evaluated after executing the block of code.

12. How can you convert the string of any base to an integer in JavaScript?

-> the ‘parseInt()’ function in javascript to convert a string from any base to an integer.

13. What is the function of the delete operator?

->the delete operator in javascript is used to remove a property from an object

Example:-

Let car={

brad:’Toyota’;

model:’camry’;

year:2022

};

delete car.year;

console.log(car);

//output:- brad:’Toyota’;model:’camry’;

14. What are all the types of Pop up boxes available in JavaScript?

-> **Alert Box (**alert()**):** This type of popup box is used to display a message to the user. It typically contains a message and an "OK" button. The user must click "OK" to dismiss the popup.

Example:-

->alert(“This is an alert box”);

15. What is the use of Void (0)?  
->void(0) is use the way to create an expression that evaluates to undefined. It's commonly used in scenarios where you want to create an expression that doesn't produce any side effects but still returns undefined.  
16. How can a page be forced to load another page in JavaScript?

-> In JavaScript we can use window.location object to force a page to load another page. We can use the location object to set the URL of a new page.