## **1. What is JavaScript?**

## JavaScript is a high-level programming language primarily used for creating interactive effects within web browsers.

## It's commonly used for developing web applications, games, and more.

## It allows for dynamic content updates, user interactions, and enhanced functionality on web pages.

**2. What is the use of isNaN function?**

* isNaN function: It is used to determine whether a value is NaN (Not-a-Number) or not.
* It returns true if the value is NaN; otherwise, it returns false.

## **3. What is negative Infinity?**

## Negative Infinity: In JavaScript, Negative Infinity is a value representing the negative infinity, which is smaller than any other number.

## It's a constant value that can be obtained by dividing a negative number by zero or by directly using -Infinity.

**4.Which company developed JavaScript?**

## JavaScript was developed by Netscape Communications Corporation, specifically Brendan Eich in 1995.

## It was initially named Mocha, then LiveScript, before finally being named JavaScript.

### **5. What are undeclared and undefined variables?**

### Undeclared variables are those that have been used in code without being declared using var, let, or const keywords.

### Undefined variables are those that have been declared but not assigned any value.

### Accessing an undeclared variable leads to a ReferenceError, while accessing an undefined variable returns undefined.

### **6. Write the code for adding new elements dynamically?**

### Adding new elements dynamically in HTML using JavaScript can be done using methods like createElement, appendChild, or innerHTML to manipulate the DOM (Document Object Model).

### **Example**

### adding a new paragraph element to the body let

### **newParagraph = document.createElement('p'); newParagraph.textContent = 'This is a new paragraph.'; document.body.appendChild(newParagraph);**

### **7. What is the difference between ViewState and SessionState?**

### ViewState is specific to ASP.NET and is used to store state information that is related to a particular web page.

### SessionState is used to store state information that is visible across multiple pages of a web application for a user session.

### **8. What is === operator**

### === operator: It's the strict equality operator in JavaScript that checks both value and type.

### It returns true if both operands are equal without performing type coercion; otherwise, it returns false.

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

### To change the style or class of an element in JavaScript, you can use various methods

### like element.style.property = value, element.classList.add/remove, or element.setAttribute('class', 'newClassName').

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

### Reading and writing files using JavaScript can be achieved in web environments using APIs

### like FileReader for reading files and FileWriter for writing files, available in browsers supporting the File API.

### **11. What are all the looping structures in JavaScript?**

### Looping structures in JavaScript include for, while, do-while, for...in, and for...of.

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

### To convert a string of any base to an integer in JavaScript, you can use parseInt() function specifying the base as the second argument.

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

### let binaryString = '1010'; let decimalNumber = parseInt(binaryString, 2); // converts binary string to decimal console.log(decimalNumber); // Output: 10

### 

### **14. What is the function of the delete operator?**

### The delete operator in JavaScript is used to delete an object's property or an element at a specified index in an array.

### It does not affect variables or functions.

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

### JavaScript provides three types of

### pop-up boxes: alert()

### confirm()

### prompt()

**15. What is the use of Void (0)?**

### void(0) is used to prevent the browser from performing the default action when clicking a link.

### It evaluates the expression within void() as undefined and prevents the page from navigating elsewhere.

**16. How can a page be forced to load another page in JavaScript?**

### To force a page to load another page in JavaScript,

### we can use window.location.href = 'newPageURL'; to set the location to the new page's URL.

### **17. What are the disadvantages of using innerHTML in JavaScript?**

### Disadvantages of using innerHTML in JavaScript

### potential security risks due to injection attacks (if used with user input),

### overwriting existing content

### reduced performance compared to other DOM manipulation methods for large operations.