



JavaScript

Question

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1. What is JavaScript?

➡ JavaScript is a high-level, interpreted programming language primarily used for adding interactivity to web pages

2. What are the data types in JavaScript?

➡ JavaScript has six primitive data types: string, number, boolean, null, undefined, and symbol, along with a complex data type called object .

3. What is the DOM in JavaScript?

➡ The Document Object Model (DOM) is a programming interface that represents the structure of HTML and XML documents. It allows JavaScript to access and manipulate the content and structure of a webpage.

4. What is the difference between null and undefined?

➡ null represents the intentional absence of any object value, while undefined indicates the absence of a value or an uninitialized variable.

5. What is an event in JavaScript?

➡ An event is an action or occurrence that happens in the browser, such as a button click or page load. JavaScript can respond to these events by executing code in response.

6. What are JavaScript promises?

➡ Promises are used for asynchronous programming in JavaScript. They represent the eventual completion (or failure) of an



asynchronous operation and allow chaining of operations using `.then()` and `.catch()`.

7. What is a non-clustered index

➡ Template literals, denoted by backticks (```), are a way to create strings in JavaScript that support interpolation of variables and multi-line strings.

8. What is the purpose of the `const` keyword in JavaScript?

➡ The `const` keyword is used to declare block-scoped variables in JavaScript that cannot be re-assigned. However, it does not make objects or arrays immutable.

9. What is the purpose of the `let` keyword in JavaScript?

➡ The `let` keyword is used to declare block-scoped variables in JavaScript. Variables declared with `let` are only accessible within the block where they are defined.

10. What are the different ways to define a function in JavaScript?

➡ Functions in JavaScript can be defined using function declarations, function expressions, arrow functions, and methods within objects.

11. What is the purpose of the `addEventListener()` method in JavaScript?

➡ The `addEventListener()` method is used to attach an event listener to an element. It allows you to listen for specific events and execute a function when the event is triggered.

12. What is the purpose of the `parentNode` property in JavaScript?

➡ The `parentNode` property is used to access the parent node of an element in the DOM. It allows traversal and manipulation of the DOM tree by accessing the immediate parent of an element.

13. What is the purpose of the `querySelector()` method in JavaScript?



➡ The `querySelector()` method is used to select the first element that matches a specified CSS selector. It provides a powerful way to retrieve elements from the DOM based on CSS selectors.

14. What is the purpose of the `querySelectorAll()` method in JavaScript?

➡ The `querySelectorAll()` method is used to select all elements that match a specified CSS selector. It returns a collection of elements that can be iterated over or accessed using indexing.

15. What is the difference between `querySelector()` and `getElementById()`?

➡ `querySelector()` is a more versatile method that allows selecting elements based on any CSS selector, while `getElementById()` is specifically used to select an element by its unique id attribute.

16. What are arrow functions in JavaScript?

➡ Arrow functions are a concise syntax for defining functions in JavaScript. They have a shorter syntax compared to traditional function expressions and inherit the `this` value from the enclosing scope.

17. What is event delegation in JavaScript?

➡ Event delegation is a technique where you attach an event listener to a parent element instead of individual child elements. It allows handling events efficiently, especially for dynamically added elements.

18. What is the purpose of the `map()` function in JavaScript?

➡ The `map()` function is used to create a new array by applying a given function to each element of an existing array. It allows transforming and manipulating array elements easily.

19. What is the purpose of the `filter()` function in JavaScript?



➡ The `filter()` function is used to create a new array containing elements that pass a certain condition defined by a provided function. It allows filtering elements from an array based on specific criteria .

20. What is the purpose of the `reduce()` function in JavaScript?

➡ The `reduce()` function is used to reduce an array to a single value by applying a function to each element and accumulating the result. It is often used to perform calculations or transformations on arrays.

21. What is the difference between `let` and `const` in JavaScript

➡ The `let` keyword is used to declare variables that can be reassigned, while the `const` keyword is used to declare variables that are read-only and cannot be reassigned

22.. What is the purpose of the `try/catch` statement in JavaScript?

➡ The `try/catch` statement is used for error handling in JavaScript. It allows catch.

23. What are JavaScript getters and setters?

➡ Getters and setters are special methods used to get and set the values of object properties, respectively. They provide control over property access and enable data validation and encapsulation.

24. What is inheritance in JavaScript

➡ Inheritance is a mechanism in JavaScript where an object can inherit properties and methods from another object. It allows for code reuse and creating hierarchical relationships between objects

25. . What are JavaScript classes?

➡ JavaScript classes are a way to define objects with shared properties and behaviors. They provide a template for creating multiple instances of objects with similar characteristics.



26. What is the purpose of the startsWith() method in JavaScript?

➡ The startsWith() method is used to check if a string starts with a specified substring. It returns true if the string starts with the substring, and false otherwise.

27. What is the purpose of the endsWith() method in JavaScript?

➡ The endsWith() method is used to check if a string ends with a specified substring. It returns true if the string ends with the substring, and false otherwise.

28. . What is the purpose of the includes() method in JavaScript?

➡ The includes() method is used to check if a string contains a specified substring. It returns true if the substring is found, and false otherwise.

29. What is the purpose of the padStart() method in JavaScript?

➡ The padStart() method is used to pad the beginning of a string with a specified character until it reaches a desired length. It is often used for formatting purpose.

30. What is the purpose of the padEnd() method in JavaScript?

➡ The padEnd() method is used to pad the end of a string with a specified character until it reaches a desired length. It is often used for formatting purposes.

31. What is the purpose of the decodeURIComponent() function in JavaScript?

➡ The decodeURIComponent() function is used to decode URL-encoded components. It converts URL-encoded characters back to their original form.

32. . What is the purpose of the Math.random() function in JavaScript?



➡The `Math.random()` function is used to generate a random floating-point number between 0 (inclusive) and 1 (exclusive). It is often used to introduce randomness in JavaScript programs

33. What is the purpose of the `Math.floor()` function in JavaScript?

➡The `Math.floor()` function is used to round a number down to the nearest integer. It removes the decimal part of the number and returns the largest integer less than or equal to the given number.

34. What is the purpose of the `Math.ceil()` function in JavaScript

➡The `Math.ceil()` function is used to round a number up to the nearest integer. It increases the number to the next higher integer, regardless of the decimal part.

35. What is the purpose of the `Math.round()` function in JavaScript?

➡The `Math.round()` function is used to round a number to the nearest integer. It rounds the number up or down based on the decimal part.

36. What is the purpose of the `Date()` constructor in JavaScript?

➡The `Date()` constructor is used to create a new JavaScript Date object that represents a specific date and time. It allows working with dates and performing various operations on them.

37. What is the purpose of the `getFullYear()` method in JavaScript Date objects?

➡The `getFullYear()` method is used to retrieve the four-digit year value of a JavaScript Date object. It returns the year as a four-digit number, such as 2025.

38. What is the purpose of the `getMonth()` method in JavaScript Date objects?

➡The `getMonth()` method is used to retrieve the month value of a JavaScript Date object. It returns a zero-based index, where January



is represented by 0 and December by 11. **39. What is the purpose of the getDate() method in JavaScript Date objects**

➡ The getDate() method is used to retrieve the day of the month value of a JavaScript Date object. It returns the day as a number between 1 and 31.

40. What is the purpose of the getDay() method in JavaScript Date objects?

➡ The getDay() method is used to retrieve the day of the week value of a JavaScript Date object. It returns a zero-based index, where Sunday is represented by 0 and Saturday by 6.

41. What is event bubbling in JavaScript?

➡ Event bubbling is a mechanism in which an event triggered on a specific element will also trigger the same event on all of its parent elements. It starts from the innermost element and propagates upwards in the DOM tree.

42. . What is the purpose of the fetch() function in JavaScript?

➡ The fetch() function is used to make HTTP requests and fetch resources from the network. It provides a modern and flexible way to perform asynchronous network requests.

43. What is the difference between null and undefined?

➡ null is an explicitly assigned value that represents the absence of an object, while undefined is a value assigned by the JavaScript engine to variables that have been declared but have not been assigned a value.

44. . What is event propagation in JavaScript?

➡ Event propagation is the process of an event being triggered on an element and then propagating to its parent elements or capturing



down from its parent elements. It allows handling events at different levels of the DOM hierarchy.

45. What is the purpose of the Object.keys() function in JavaScript?

➡ The Object.keys() function is used to extract all the keys of an object and return them as an array. It provides an easy way to iterate over an object's properties.

46. What is the purpose of the setFullYear() method in JavaScript Date objects?

➡ The setFullYear() method is used to set the year value of a JavaScript Date object. It allows modifying the year component of a date.

47. What is the purpose of the setMonth() method in JavaScript Date objects?

➡ The setMonth() method is used to set the month value of a JavaScript Date object. It allows modifying the month component of a date.

48. What is the purpose of the setDate() method in JavaScript Date objects?

➡ The setDate() method is used to set the day of the month value of a JavaScript Date object. It allows modifying the day component of a date.

49. What is the purpose of the setHours() method in JavaScript Date objects?

➡ The setHours() method is used to set the hour value of a JavaScript Date object. It allows modifying the hour component of a date.

50. What is the purpose of the setMinutes() method in JavaScript Date objects?



➡The `setMinutes()` method is used to set the minute value of a JavaScript Date object. It allows modifying the minute component of a date.

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