1. What is Node.js?
2. What are the key features of Node.js?
3. Explain the concept of asynchronous programming in Node.js.
4. How does Node.js handle concurrency?
5. What is the event-driven architecture in Node.js?
6. How does Node.js handle modules and dependencies?
7. Explain the concept of callback functions in Node.js.
8. What is the difference between synchronous and asynchronous code in Node.js?
9. How can you handle errors in Node.js?
10. What are streams in Node.js? How are they used?
11. Explain the concept of middleware in Node.js.
12. What is Express.js? How does it relate to Node.js?
13. How can you handle form data and file uploads in Node.js?
14. What is the role of package.json in a Node.js project?
15. How can you make HTTP requests in Node.js?
16. What are Promises in JavaScript? How do they work in Node.js?
17. Explain the concept of caching in Node.js.
18. How can you implement authentication and authorization in a Node.js application?
19. What is the role of the Node Package Manager (npm)?
20. How can you handle sessions and cookies in Node.js?
21. What is use strict in javascript?how it is works?
22. What is aggregation pipline in mongodb?How its work?
23. What is callbackhell?Give an example of callbackhell?
24. We have promise already so why we need of async await in nodejs?
25. Difference between apply and bind method in javascript?
26. What is put and patch request what is the use of put and patch method?
27. Reverse a string: Write a function that takes a string as input and returns the reverse of that string.
28. Find the largest number in an array: Write a function that takes an array of numbers as input and returns the largest number in the array.
29. Check for Palindrome: Write a function that takes a string as input and checks whether it is a palindrome or not. A palindrome is a word, phrase, number, or other sequence of characters that reads the same backward as forward.
30. Calculate factorial: Write a function that calculates the factorial of a given number. The factorial of a non-negative integer n is the product of all positive integers less than or equal to n.
31. FizzBuzz: Write a function that prints numbers from 1 to 100. But for multiples of three, print "Fizz" instead of the number, and for the multiples of five, print "Buzz". For numbers that are multiples of both three and five, print "FizzBuzz".
32. Check for Anagrams: Write a function that takes two strings as input and checks whether they are anagrams of each other. An anagram is a word or phrase formed by rearranging the letters of another word or phrase.
33. Remove Duplicates from an Array: Write a function that takes an array as input and removes any duplicate elements, returning a new array without duplicates.
34. Check for Prime Number: Write a function that takes a number as input and checks whether it is a prime number or not. A prime number is a natural number greater than 1 that has no positive divisors other than 1 and itself.
35. Find the Sum of Array Elements: Write a function that takes an array of numbers as input and returns the sum of all the elements in the array.
36. Check for Balanced Brackets: Write a function that takes a string containing brackets (e.g., "{[]}") as input and checks whether the brackets are balanced or not. Balanced brackets mean that for every opening bracket, there is a corresponding closing bracket in the correct order.
37. Find the Second Largest Number: Write a function that takes an array of numbers as input and returns the second largest number in the array.
38. Count the Frequency of Elements: Write a function that takes an array of elements as input and returns an object with each element as a key and its frequency as the value.
39. Find the Sum of Even Fibonacci Numbers: Write a function that calculates the sum of all even Fibonacci numbers up to a given limit. Fibonacci numbers are a series of numbers where each number is the sum of the two preceding ones, starting from 0 and 1.
40. Implement a Stack: Implement a Stack data structure with push, pop, and peek operations.
41. Find the Intersection of Two Arrays: Write a function that takes two arrays as input and returns an array containing the common elements found in both arrays.
42. Reverse a Linked List: Write a function that takes the head of a linked list as input and reverses the order of the list.
43. Check for Balanced Parentheses: Write a function that takes a string containing parentheses (e.g., "((())())") as input and checks whether the parentheses are balanced or not.
44. Implement Binary Search: Write a function that performs a binary search on a sorted array and returns the index of the target element if found, or -1 if not found.
45. Find the Longest Substring Without Repeating Characters: Write a function that takes a string as input and returns the length of the longest substring without repeating characters.
46. Implement a Queue using Two Stacks: Implement a Queue data structure using two stacks and the enqueue and dequeue operations.
47. Problem: Given an array of numbers, use map to return a new array containing the square of each number.
48. Problem: Given an array of names, use filter to return a new array containing only the names that start with the letter 'A'.
49. Problem: Given an array of numbers, use reduce to calculate the sum of all the numbers.
50. Problem: Given an array of strings, use map to create a new array with the lengths of each string.
51. Problem: Given an array of numbers, use filter to return a new array containing only the even numbers.
52. Problem: Given an array of strings, use reduce to concatenate all the strings into a single string.
53. Problem: Given an array of objects representing people, use map to create a new array containing only the names of the people.
54. Problem: Given an array of strings, use filter to return a new array containing only the strings that are palindromes (read the same forwards and backwards).
55. Problem: Given an array of numbers, use reduce to find the maximum number in the array.
56. Problem: Given a string, use map to return a new string with all the vowels replaced by '\*'.
57. Problem: Given an array of strings, use filter to return a new array containing only the strings that have a length greater than 5.
58. Problem: Given an array of numbers, use reduce to calculate the product of all the numbers.
59. How do you check if a string contains a specific substring?
60. How do you concatenate multiple strings in JavaScript?
61. How do you find the length of a string in JavaScript?
62. How do you convert a string to lowercase or uppercase in JavaScript?
63. How do you split a string into an array of substrings in JavaScript?
64. How do you remove whitespace from the beginning and end of a string in JavaScript?
65. How do you replace a specific substring in a string with another substring in JavaScript?
66. How do you check if a string starts or ends with a specific substring in JavaScript?
67. How do you reverse a string in JavaScript?
68. How do you extract a specific portion of a string in JavaScript?