

## Javascript Questions

1. Write a program to calculate the remainder of two numbers?
2. Write a program to find the average of an array of numbers?
3. Write a program to add two matrices?
4. Write a program to calculate the area of a rectangle, given its length and breadth?
5. Write a program to check if the given matrix is a diagonal matrix?
6. Write a program to check if the given matrix is an identity matrix?
7. Write a program that returns the transpose of a given matrix?
8. Write a program to find the most repeated value in an array of numbers?
9. Write a program that approximates the derivative of  $f(x)=x^n$ ?
10. Write a program to check if the given number is a perfect square or not?
11. Write a program to calculate the area of a triangle given its base and height.?
12. Write a program to calculate the Fibonacci series of a given number?
13. Write a program to check whether a given number is an Armstrong number or not?
14. Write a program to check whether a given number is a perfect number or not?
15. Write a program to convert the decimal number to a binary representation?
16. Write a program to check whether the given string is palindrome or not?
17. Write a program to find the greatest common divisor (GCD) of two numbers?
18. Write a program to find the least common multiple (LCM) of two numbers?
19. Write a program to count the number of vowels in a string?
20. Write a program to calculate the factorial of a number using a recursive method?
21. Write a program to find the first n prime numbers up to the given number?
22. Write a program to remove duplicates in an array of numbers?
23. Write a program to check whether the given string with space is palindrome or not?
24. Write a program to simplify a fraction of two numbers to its lowest term?
25. Write a program to find the range (difference between the highest and lowest values) in an array of numbers?

\* Please write test cases for all the questions.