1. Using only one line of code, reverse the array, remove the last element, and then double the remaining elements. Input: [1, 2, 3, 4, 5], Output: [8, 6, 4, 2].
2. Given an array nums. We define a running sum of an array as runningSum[i] = sum(nums[0]…nums[i]). Return the running sum of nums. Example 1: Input: nums = [1,2,3,4], Output: [1,3,6,10], Explanation: Running sum is obtained as follows: [1, 1+2, 1+2+3, 1+2+3+4].
3. Write a program to find multiplication of 2 numbers using + operator you must use minimum possible iterations.
4. Write a JavaScript program to find second largest number from a number array without using any built-in functions.
5. Write a JavaScript program to check a pair of numbers and return true if one of the numbers is 50 or if their sum is 50.
6. Write a Program to find prime numbers in a given range using looping statements.
7. Check whether the number is palindrome or not “34543” if it is a palindrome return number is palindrome and if it is not return it is not a palindrome
8. Write a javascript function that accepts a number and returns its factorial (e.g., factorial of 5 is 5 x 4 x 3 x 2 x 1)
9. Write a function to check if two strings are anagrams in javascript.
10. Write a JavaScript function that returns the Fibonacci sequence up to a given number of terms
11. Write a javascript program to count the occurrence of each character in a string
12. Write a JS program to Multiply two numbers using function
13. Write a JavaScript function to find the first non-repeating character in a string. If all characters repeat, return null.
14. Write a JavaScript program to extract the file name (without its extension) from a given set of file names
15. Write a JavaScript function to find all pairs of numbers in an array that sum up to a given target value. Return the pairs as an array of arrays.
16. Write a function countVowels that takes a string as input and returns the number of vowels (a, e, i, o, u) in it.
17. Write a JavaScript function that takes an array of numbers and finds the second lowest and second greatest numbers, respectively. Sample array : [1,2,3,4,5], Expected Output : 2,4
18. Write a javaScript program to find the Fibonacci series up to 10 terms.
19. What is function currying?

Function currying is a process in which we convert a function with multiple parameters to a chain of functions with a single parameter.

Example:

// Normal function

function sum(a, b) {

return a + b;

}

// Curried function

function currySum(a) {

return function (b) {

return a + b;

}

}

console.log(sum(1, 2)); // 3

console.log(currySum(1)(2)); // 3

1. Explain how the map(), filter(), and reduce() array methods work and give example for each one
2. Write a javascript program to generate a random number between 1 and 100
3. Write a JavaScript Program to Display Armstrong Number Between Two Intervals
4. Write a javascript program to add two random two digit numbers and ask the user to answer the same. Check and print if the answer given by the user is Correct or Not.
5. Write a JavaScript program using function that prints the numbers from 1 to n. But for multiples of three, print "Fizz" instead of the number, and for the multiples of five, print "Buzz". For numbers which are multiples of both three and five, print "FizzBuzz".
6. Write a JavaScript program to find the missing number in an array that contains numbers from 1 to N
7. with one number missing.
8. Write a recursive function to calculate the factorial of a given number.
9. write a JavaScript program to print Floyd’s Triangle
10. Write code that enhances all arrays such that you can call the snail(rowsCount, colsCount) method that transforms the 1D array into a 2D array organised in the pattern known as snail traversal order. Invalid input values should output an empty array. If rowsCount \* colsCount !== nums.length, the input is considered invalid.

Eg:-

Input:

nums = [19, 10, 3, 7, 9, 8, 5, 2, 1, 17, 16, 14, 12, 18, 6, 13, 11, 20, 4, 15]

rowsCount = 5

colsCount = 4

Output:

[

[19,17,16,15],

[10,1,14,4],

[3,2,12,20],

[7,5,18,11],

[9,8,6,13]

]

1. Write a JavaScript program to compute the greatest common divisor (GCD) of two positive integers
2. Given a string, write a function to count the occurrences of each character in the string.
3. Write a JavaScript function that takes an array of numbers and returns a new array with only the even numbers.
4. Write a function to convert a string from snake\_case to camelCase. Hint: Use string splitting and array mapping.
5. Write a JS program to evaluate student's performance by determining the grades of the subjects, calculating the overall percentage, and find the count of failed subjects

eg: Subjects & Marks Array : [["Subject Name"], Marks];

Output Expected :

subName Grade : A

subName Grade : B

subName Grade : c

Percentage of the total mark : %

Failed subjects: count of failed subjects

1. write a JS program to convert roman numbers to integers

Example 1

Input: "LVIII"

Output: 58

Example 2

Input: "III"

Output: 3

1. write a js programme array with string and find out the name starting with letter 'k' the string with array is [john,rose,kenneth,jishnu,santhosh]
2. Write a JavaScript program that takes an array with mixed data type and calculates the sum of all numbers.
3. Write a JavaScript function that takes a sentence as input and returns the longest word in the sentence. If there are multiple words of the same length, return the first one that appears.

Input : "The quick brown fox jumps over the lazy dog"

Output : "jumps"

Input : "JavaScript is an amazing programming language"

Output : "programming"

1. Write a function that removes duplicate values from an array. Example: Input: [1, 2, 2, 3, 4, 4, 5], Output: [1, 2, 3, 4, 5]
2. Write a JavaScript function that accepts an array of numbers and returns the product of all the numbers in the array. Example: Input: [1, 2, 3, 4] , Output: 24
3. Given an integer n, return true if it is a power of two. Otherwise, return false.

An integer n is a power of two, if there exists an integer x such that n == 2x. Example 1:

Input: n = 16

Output: true

Explanation: 2^4 = 16

Example 2:

Input: n = 3

Output: false

1. Write a java script program to check whether the given number is armstrong or not
2. Write a Javascript Program to Convert Celsius to Fahrenheit.