

## Assignment 5

i. Write a JavaScript program to take two numbers as input from user and display their sum, difference, product, and quotient.

ii. Write a JavaScript program to create an array of 5 numbers and:

Find the largest and smallest number.

Sort the array in ascending and descending order.

iii. Create a simple form with fields for name, email, and age. Write JavaScript to validate that:

The name field is not empty.

The email is in the correct format.

The age is a number between 18 and 100.

iv. Write a JavaScript program to create an object representing a student (with properties like name, age, grades) and perform the following operations:

Add a new property class.

Update the student's grade.

Display all the student's information.

v. Create a function that takes an array of numbers and uses the array's built-in methods (like `map()`, `reduce()`, and `filter()`) to:

Remove all odd numbers.

Multiply the remaining numbers by 2.

Find the sum of the resulting numbers.