Assignment 1

- 1. Write a JavaScript function to calculate the sum of two numbers.
- 2. Write a JavaScript function to check if a given string is a palindrome.
- 3. Write a JavaScript program to reverse a given string.
- 4. Write a JavaScript function that takes an array of numbers and returns a new array with only the even numbers.
- 5. Implement a deep clone function in JavaScript that creates a copy of a nested object or array without any reference to the original.
- 6. Implement a function to reverse a string without using the built-in reverse () method
- 7. Implement a function to find the sum of all the numbers in an array.
- 8. Write a function that accepts a number and returns its factorial (e.g., factorial of 5 is $5 \times 4 \times 3 \times 2 \times 1$).
- 9. Implement a function that returns the average value of numbers in an array.
- 10. Implement a function that finds the index of a specific element in an array.
- If the element is not found, the function should return -1.
- 11. How would you check if a number is an integer?
- 12. Create a function that takes the age in years and returns the age in days.
- 13. Explain what a callback function is and provide a simple example.