1. **Loop: Find the Sum of Numbers:** Write a JavaScript function that calculates the sum of all numbers from 1 to a given positive integer n using a loop (set n to 100).
2. **Loop: Factorial Calculation:** Write a JavaScript function that calculates the factorial of a given positive integer n using a loop (set n to any number of your choice).
3. **Loop: Print Even Numbers:** Write a JavaScript program that prints all even numbers from 1 to 50 using a loop. B. Write another program that prints the sum of even numbers from 1-50
4. **Loop: Reverse a String:** Write a JavaScript function that takes a string as input and returns the string in a reversed form, using a loop.
5. **Function: Quadratic Equation Solver:** Write a JavaScript function that solves a quadratic equation ax^2 + bx + c = 0 using the quadratic formula. The function should take a, b, and c as parameters from users and return an array with the solutions.check the quadratic equation formular online and use.
6. **Function: Calculate GCD (Greatest Common Divisor):** Write a JavaScript function that calculates the Greatest Common Divisor (GCD) of two numbers using the Euclidean algorithm. Research the Euclidean algorithm and how it works, then use it in your program.
7. **Loop: Fibonacci Sequence:** Write a JavaScript function that generates the first 50 numbers of the Fibonacci sequence using a loop.
8. **Function: Palindrome Checker:** Write a JavaScript function that checks if a given string is a palindrome (palindromes are words that reads the same way forwards and backwards) using a loop.
9. **Loop: Print Prime Numbers:** Write a JavaScript program that prints all prime numbers from 1 to 100

10. **Loop: Multiplication Table:** Write a JavaScript program that generates and prints a 12 by 12 multiplication table using a nested loop.