1- Check The Number Is Even or Odd

// program to check if the number is even or odd

const number = prompt("Enter a number: ");

//check if the number is even

if (number % 2 == 0) {

    console.log("The number is even.");

}

// if the number is odd

else {

    console.log("The number is odd.");

}

2- Fizz Buzz Game

for (var i = 1; i < 101; i++) {

    if (i % 15 == 0) console.log("FizzBuzz");

    else if (i % 3 == 0) console.log("Fizz");

    else if (i % 5 == 0) console.log("Buzz");

    else console.log(i);

}

3- Reverse String for example welcome => emoclew

4- Compute Circle Area and Circumference

function GivenRadius(radius) {

    this.radius = radius;

    this.getArea = () => console.log(3.14 \* radius \*\* 2);

    this.getCircumference = () => console.log(2 \* 3.14 \* radius);

    this.getArea();

    this.getCircumference();

}

const rad = new GivenRadius(7);

const circle = new GivenRadius(25);

5- check two given numbers and return true if one of the number is

50 or if their sum is 50.

function test50(x, y) {

    return ((x == 50 || y == 50) || (x + y == 50));

}

console.log(test50(50, 50))

console.log(test50(20, 50))

console.log(test50(20, 20))

console.log(test50(20, 30))

6- check from two given integers, whether one is positive and

another one is negative.

function positive\_negative(x, y) {

    if ((x < 0 && y > 0) || x > 0 && y < 0) {

        return true;

    }

    else {

        return false;

    }

}

console.log(positive\_negative(2, 2));

console.log(positive\_negative(-2, 2));

console.log(positive\_negative(2, -2));

console.log(positive\_negative(-2, -2));

7- check whether a given positive number is a multiple of 5 or a

multiple of 8.

function test37(x) {

    if (x % 5 == 0 || x % 8 == 0) {

        return true;

    }

    else {

        return false;

    }

}

console.log(test37(12));

console.log(test37(14));

console.log(test37(10));

console.log(test37(11));

8- find the largest of three given integers

function max\_of\_three(x, y, z) {

    max\_val = 0;

    if (x > y) {

        max\_val = x;

    } else {

        max\_val = y;

    }

    if (z > max\_val) {

        max\_val = z;

    }

    return max\_val;

}

console.log(max\_of\_three(1, 0, 3));

console.log(max\_of\_three(0, -10, -20));

console.log(max\_of\_three(1000, 510, 440));

9- Compute The sum of the numbers from 1 to 10

10- display the pattern like right angle triangle using an asterisk.

let n = 5;

for (let i = 1; i <= n; i++) {

    for (let j = 0; j < n - i; j++) {

        process.stdout.write(' ');

    }

    for (let k = 0; k < i; k++) {

        process.stdout.write('\*');

    }

    console.log();

}

11- check whether a given number is positive or negative.

function isNegative(num) {

    if (Math.sign(num) === -1) {

        return true;

    }

    return false;

}

console.log(isNegative(-5));

console.log(isNegative(5));

console.log(isNegative('-5'));

console.log(isNegative('test'));

12- store elements in an array and print it.

var colors = ["red", "orange", "yellow", "green", "blue"];

console.log(colors);

console.log(colors[0]);

console.log(colors[1]);

console.log(colors[4]);

colors[4] = "dark blue"

console.log(colors[4]);

13- print the sum of two numbers

const num1 = 5;

const num2 = 3;

// add two numbers

const sum = num1 + num2;

// display the sum

console.log('The sum of ' + num1 + ' and ' + num2 + ' is: ' + sum);

14- calculate the factorial of a given number

function factorial(n) {

    let answer = 1;

    if (n == 0 || n == 1) {

        return answer;

    } else {

        for (var i = n; i >= 1; i--) {

            answer = answer \* i;

        }

        return answer;

    }

}

let n = 5;

answer = factorial(n)

console.log("The factorial of " + n + " is " + answer);

15- Create Simple Calculator

let num1 = parseInt(prompt("enter first number"));

let num2 = parseInt(prompt("enter Second number"));

let sum = num1 + num2;

let minus = num1 - num2;

let multiplie = num1 \* num2;

let divide = num1 / num2;

console.log(sum);

console.log(minus);

console.log(multiplie);

console.log(divide);