22BPS1181 demo.js

var string='Hi'

function **reverse**(str){

let newString = "";

    for (let i = str.length - 1; i >= 0; i--) {

        newString += str[i];

    }

    return newString;

}

function **fact**(num){

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

**fact**\*=i

}

return **fact**;

}

function **palin**(str){

if(str == **reverse**(str)){

return "Palindrome"

}

else

return "Not a Palindrome"

}

function **findMax**(numbers) {

    let max = numbers[0];

    for (let i = 1; i < numbers.length; i++) {

        if (numbers[i] > max) {

            max = numbers[i];

        }

    }

    return max;

}

function **printNumbers**() {

    for (let i = 1; i <= 100; i++) {

        if (i % 3 === 0 && i % 5 === 0) {

            console.**log**("FlipFlop");

        } else if (i % 3 === 0) {

            console.**log**("Flip");

        } else if (i % 5 === 0) {

            console.**log**("Flop");

        } else {

            console.**log**(i);

        }

    }

}

function **arraySum**(arr) {

    let sum = 0;

    for (let i = 0; i < arr.length; i++) {

        sum += arr[i];

    }

    return sum;

}

function **findMissingNumber**(arr) {

    let n = arr.length + 1; *// n is one more than the length of the array (due to missing number)*

    let expectedSum = (n \* (n + 1)) / 2; *// Sum of all numbers from 0 to n*

    let actualSum = arr.**reduce**((acc, num) => acc + num, 0); *// Sum of all numbers in the array*

    return expectedSum - actualSum; *// The difference is the missing number*

}

console.**log**(**reverse**(string))

console.**log**(**fact**(5))

console.**log**(**palin**('MOM'))

console.**log**(**findMax**([10,20,5,8,9]));

**printNumbers**();

console.**log**(**arraySum**([1,2,3,4,5]));

console.**log**(**findMissingNumber**([1,2,3,4,5,7,8,9,10]));





