1.///Function

function sum(a, b){

    let summation=a+b;

    console.log(summation);

}

sum(5, 10);

2./// function with return

function sum(a, b){

    let summation=a+b;

    return summation;

}

var result=sum(5, 10);

console.log(result);

function isOdd(number){

    if(number){

        return true;

    }

    else{

        return false;

    }

}

let digit=isOdd(5);

console.log(digit);

function isOdd(number){

    if(number%2===0){

        return (number+ " is an even number");

    }

    else{

        return (number+ " is an odd number");

    }

}

let digit=isOdd(5);

let digit2=isOdd(10);

console.log(digit);

console.log(digit2);

3./// function with boolen argument

function make(number, double){

    if(double===true){

        number\*=2;

        return number+' made double'

    }

    else{

        number\*=3;

        return number+ " made triple";

    }

}

console.log(make(5, true));

console.log(make(5, false));

4.// count length of an array with function

function length(element){

    let size=element.length;

    return size;

}

let elementLength=length([12, 43, 32, 65, 56])

console.log(elementLength);

5.///

Summation of all element of an array

function total(elements){

    let sum=0;

    for(let element of elements ){

        sum=sum+ element;

    }

    return sum;

}

let numbers=[12, 43, 32, 65, 56];

console.log("The total is ",total(numbers));

6./// sum of only the even number of an array

function sumEven(elements){

    let sum=0;

    for(let element of elements ){

        if(element%2=== 0){

            sum=sum+element;

        }

    }

    return sum;

}

let numbers=[1, 2, 3, 4, 5];

console.log("The total is ",sumEven(numbers));

6.///

Creat a new array with only the oven number from an array

function sumEven(elements){

    let evenArray=[];

    for(let element of elements ){

        if(element%2=== 0){

            evenArray.push(element)

        }

    }

    return evenArray;

}

let number=[1, 2, 3, 4, 5];

console.log(sumEven(number));

## array like object

function name(num1, num2){

    console.log(num1, num2);

    console.log(arguments)

}

name(12, 43, 23, 354, 45);

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.search new product by loop in a function   
let products=[

    {id:1, name:"Nokia Phone", price:2343},

    {id:2, name:"xiomi Phone", price:2343},

    {id:3, name:"apple Phone", price:2343},

    {id:4, name:"htx Phone", price:2343},

];

// console.log(products);

function search(products, matchedName){

    let newProduct=[];

    for(let product of products){

        if(product.name.toLowerCase().includes(matchedName.toLowerCase())){

            newProduct.push(product)

        }

    }

    return newProduct;

}

let result=search(products, "phone");

console.log(result);