1. Print odd numbers in an array

let userInput = [1,2,3,4,5,6,7,8,9,10];

(function() {

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

{

if((userInput[i]%2) !==0)

{

console.log(userInput[i])

}

}

})(userInput);

1. Convert all the strings to title caps in a string array

let a = ["he is king", "she is queen", "this is their kingdom"];

(function (b) {

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

let words = b[i].toLowerCase().split(" ");

for (let j = 0; j < words.length; j++) {

words[j] = words[j][0].toUpperCase() + words[j].slice(1);

}

b[i] = words.join(" ");

}

console.log(a)

})(a);

1. Sum of all numbers in a array

let userInput = [1,2,3,4,5,6,7,8,9,10];

(function() {

let sum = 0

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

{

sum = sum + userInput[i]

}

console.log(sum)

})(userInput);

1. Return all the prime numbers in an array

let array = [1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20];

(function(a){

let result = [];

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

let isPrime = true;

if (a[i] === 1) {

isPrime = false;

}

for (let j = 2; j < a[i]; j++) {

if (a[i] % j === 0) {

isPrime = false;

break;

}

}

if (isPrime == true) {

result.push(a[i]);

}

}

console.log(result)

})(array);

1. Return all the palindromes in an array

let a = ["hello","racecar","nun","civic","queen"];

(function(yes){

let palindrome = [];

for(i=0;i<yes.length;i++)

{

let correctword = yes[i].split("").reverse().join("")

if(correctword === yes[i])

{

palindrome.push(yes[i])

}

}

console.log(palindrome)

})(a);

1. Return median of two sorted arrays of the same size

let a = [6,7,4,5,8,11];

let b = [1,3,2,9,10,12];

(function(d,e)

{

let joinedarray = d.concat(e)

let solvedarray = joinedarray.sort((d,e) => d -e)

let middle = Math.floor(solvedarray.length/2)

if(((solvedarray.length%2)==0))

{

let median = (solvedarray[middle] + solvedarray[(middle - 1)])/2

console.log(median)

}

else

{

median = solvedarray[middle]

console.log(median)

}

})(a,b);

1. Remove duplicates from an array

let a = ['a', 'b', 'c', 'd', 'a', 'e', 'f', 'c'];

(function(d){

let b = [];

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

if (b.indexOf(d[i]) === -1) {

b.push(d[i]);

}

}

console.log(b);

})(a);

// Another method

let a = [1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8];

(function(d){

let b = [...new Set(d)];

console.log(b);

})(a);

1. Rotate an array by k times

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

let k = 4;

(function (d,e) {

for (let i = 0; i < e; i++) {

let shift = d.shift();

d.push(shift);

}

console.log(d);

})(a,k);