 Programs in arrow functions

1. numbers in an array

let a = [1,2,3,4,5,6,7,8,9]

let oddNumbers = ((array)=>{

    let odd = []

    for(let i of array)

    {

        if(i%2!==0)

            odd.push(i)

    }

    return odd

})(a);

console.log(oddNumbers)

b.strings to title caps in a string array;

let stringArray = ["welcome","javascript","day three"];

(() => {

    let titleCaseArray = stringArray.map(str => {

        return str.toLowerCase().replace(/\b\w/g, char => char.toUpperCase());

    });

    console.log(titleCaseArray);

})();

c.Sum of all numbers in an array;

let numbers = [1,3,5,7,9];

   (() => {

    let sum = numbers.reduce((total, num) => total + num, 0);

    console.log("sum", sum);

})();

1. prime numbers in an array;

const array = [2,3,4,5,6,7,8,9,10];

const isPrime = num => {

    if (num <= 1) return false;

    for (let i = 2; i <= Math.sqrt(num); i++) {

        if (num % i === 0) return false;

    }

    return true;

};

const primeNumbers = array.filter(num => isPrime(num));

console.log("Prime numbers in the array:", primeNumbers);

1. palindromes in an array;

const array = ["growth","madam","welcome","rotor",];

const isPalindrome = str => {

    const reversed = str.split("").reverse().join("");

    return str === reversed;

};

const palindromes = array.filter(str => isPalindrome(str));

console.log("Palindromes in the array:", palindromes);

Thank You