1. Do the below programs in anonymous function & IIFE
   1. Print odd numbers in an array

//solution

var a=[1,2,3,4];

function odd(arr){

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

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

console.log(arr[i]);

}

}

odd(a)

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

//solution

function title(str){

str=str.toLowerCase().split(' ');

for (var i=0;i<str.length;i++){

str[i] =str[i].charAt(0).toUpperCase() + str[i].slice(1);

}

return str.join(' ');

}

console.log(title('guvi geek'))

* 1. Sum of all numbers in an array

//solution

var a=[1,2,3,4];

function sum(arr){

var sum1=0;

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

sum1 +=arr[i];

}

return sum1;

}

console.log(sum(a))

* 1. Return all the prime numbers in an array

//solution

var a=[1,2,3,4,5,6,7,8,9,10];

function prime(arr){

for(var i=2;i<arr;i++){

if(arr % i==0){

return false;

}

}

return arr > 1;

}

console.log(a.filter(prime))

* 1. Return all the palindromes in an array

//solution

function palidrome(str){

for(var i=0;i<a.length/2;i++){

if(a[i] !== a[a.length -1 -i]){

return false;

}

}

return a;

}

var a='dad';

console.log(palidrome(a))

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

//solution

function median(ar1,ar2,n){

var i=0;

var j=0;

var count=0;

var m1= -1, m2= -1;

for(count=0;count <= n;count++){

if(i==n){

m1=m2;

m2=ar2[0];

break;

}

else if(j==n){

m1=m2;

m2=ar1[i];

i++;

}

else{

m1=m2;

m2=ar2[j];

j++;

}

}

return (m1+m2)/2;

}

var ar1=[1,12,15,26,38];

var ar2=[2,13,17,30,45];

var n1=ar1.length;

var n2=ar2.length;

if(n1==n2)

console.log(median(ar1,ar2,n1));

* 1. Remove duplicates from an array

//solution

function uniq(arr){

let uniqarr =[];

for (let i of arr){

if(uniqarr.indexOf(i)=== -1){

uniqarr.push(i);

}

}

console.log(uniqarr);

}

var a=[1,2,3,2,3];

uniq(a)

* 1. Rotate an array by k times

//solution

function rotate(a,n,k){

k=k % n;

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

if(i<k){

console.log(a[n+i-k] + " ");

}else{

console.log((a[i-k]) + " ");

}

}

return ;

}

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

let n=array.length;

let k=2;

rotate(array,n,k);

1. Do the below programs in arrow functions
2. Print odd numbers in an array

//solution

var a=[1,2,3,4];

var res=a.filter((ele)=> ele%2!==0);

console.log(res)

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

//solution

var str="guvi geek";

var res=str.split(" ").map(([firstChar,...rest])=>firstChar.toUpperCase()+rest.join("").toLowerCase()).join(" ");

console.log(res)

1. Sum of all numbers in an array

//solution

var a=[1,2,3,4];

var res=a.reduce((acc,val)=>acc+val,0);

console.log(res)

1. Return all the prime numbers in an array

//solution

var a=[1,2,3,4,5,6,7,8,9,10];

var res=a.filter(num=>{

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

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

}

return num !==1;

});

console.log(res)

1. Return all the palindromes in an array

//solution

palidrome=(str="")=>{

if (str[0]=== str[str.length - 1]){

return str.length<= 1 ? true : palidrome(str.slice(1,-1))

}

return false;

}

console.log(["racecar","dad"].map((e,i)=>palidrome(e)).join());