**a.Print odd numbers in an array**

**Anonymous:**

var result=function(arr){

var d=[];

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

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

d.push(arr[i]);

}

return d;

}

var array=[1,2,3,4,5,6,7];

console.log(result(array));

**IIFE:**

(function(arr){

var d=[];

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

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

d.push(arr[i]);

}

console.log(d);

})([1,2,3,4,5,6,7]);

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

**Anonymous:**

var title=function(arr){

var e=[];

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

var d=arr[i].split(' ');

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

d[j]=d[j][0].toUpperCase() + d[j].substring(1).toLowerCase();

}

e.push(d.join(' '));

}

return e;

}

console.log(title(['abc','nisha','kavya bangalore']));

**IIFE:**

(function(arr){

var e=[];

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

var d=arr[i].split(' ');

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

d[j]=d[j][0].toUpperCase() + d[j].substring(1).toLowerCase();

}

e.push(d.join(' '));

}

console.log(e);

})(['abc','nisha','kavya bangalore']);

**c.Sum of all numbers in an array**

**Anonymous:**

var sum=function(arr){

var s=0;

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

s=s+arr[i];

}

return s;

}

console.log(sum([1,2,3,4,5,6,7]));

**IIFE:**

(function(arr){

var s=0;

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

s=s+arr[i];

}

console.log(s);

})([1,2,3,4,5,6,7]);

**d.Return all the prime numbers in an array**

**Anonymous:**

var prime=function(arr){

var e=[];

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

{var isprime=true;

if(arr[i]>1){

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

{

if(arr[i]%j===0)

isprime=false;

break;

}

if(isprime)

e.push(arr[i]);

}

}

console.log(e);

}

prime([-3,1,3,4,5,6,7,8,9]);

**IIFE:**

(function(arr){

var e=[];

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

{var isprime=true;

if(arr[i]>1){

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

{

if(arr[i]%j===0)

isprime=false;

break;

}

if(isprime)

e.push(arr[i]);

}

}

console.log(e);

})([-3,1,3,4,5,6,7,8,9]);

**e.Return all the palindromes in an array**

**Anonymous:**

var palindrome=function(arr){

var e=[];

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

var d=arr[i].split('').reverse().join('');

if(arr[i].toLowerCase()==d.toLowerCase())

e.push(arr[i]);

} console.log(e);

}

palindrome(['mom','sam','madam','Able was I ere I saw Elba'])

**IIFE:**

(function(arr){

var e=[];

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

var d=arr[i].split('').reverse().join('');

if(arr[i].toLowerCase()==d.toLowerCase())sss

e.push(arr[i]);

}

console.log(e);

})(['mom','sam','madam','Able was I ere I saw Elba']);

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

**Anonymous:**

var arr1=[1, 12, 15, 26, 38];

var arr2=[2, 13, 17, 30, 45];

var res;

var index;

function median(arr1,arr2){

for(let i=0;i<arr2.length;i++){

arr1.push(arr2[i]);

}

arr1.sort((a, b)=>a - b);

if(arr1.length%2===0)

{

index=arr1.length/2;

res=(arr1[index]+arr1[index-1])/2;

}

else

{ index=arr1.length/2;

res=arr1[index+1];

}

console.log(res);

}

median(arr1,arr2);

**IIFE:**

var arr1=[1, 12, 15, 26, 38];

var arr2=[2, 13, 17, 30, 45];

var res;

var index;

(function median(arr1,arr2){

for(let i=0;i<arr2.length;i++){

arr1.push(arr2[i]);

}

arr1.sort((a, b)=>a - b);

if(arr1.length%2===0)

{

index=arr1.length/2;

res=(arr1[index]+arr1[index-1])/2;

}

else

{ index=arr1.length/2;

res=arr1[index+1];

}

console.log(res);

})(arr1,arr2);

**g. Remove duplicates from an array**

**Anonymous:**

var duplicate=function(arr){

var e=[];

e.push(arr[0]);

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

var count=0;

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

if(arr[i]==e[j])

count++;

}

if(count===0)

{e.push(arr[i]);

}

}

console.log(e);

}

duplicate([5.1,3,2,3,2,4]);

**IIFE:**

(function(arr){

var e=[];

e.push(arr[0]);

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

var count=0;

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

if(arr[i]==e[j])

count++;

}

if(count===0)

{e.push(arr[i]);

}

}

console.log(e);

})([5.1,3,2,3,2,4]);

**h. Rotate an array by k times**

**Anonymous:**

var rotate=function(arr,k,reverse){

for(let i=1;i<=k;i++)

{ if(reverse)

arr.unshift(arr.pop());

else

arr.push(arr.shift());

} console.log(arr);

}

rotate([5.1,3,2,3,2,4],2);

rotate([5.1,3,2,3,2,4],2,true);

**IIFE:**

(function(arr,k,reverse){

for(let i=1;i<=k;i++)

{

if(reverse)

arr.unshift(arr.pop());

else

arr.push(arr.shift());

}

console.log(arr);

})([5.1,3,2,3,2,4],2);