1. Do the below programs in anonymous function & IIFE:

a. Print odd numbers in an array

var arr=[10,81,35,66,79,90,46];

(function()

{

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

{

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

console.log(arr[i]);

}

})();

**Output:**

81

35

79

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

var a=["sundari","asvanth","nimalan","nivisha"];

var c=[];

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

{

var b=[];

b=a[i].split("");

for(var j=0;j<b.length;j++)

{

c.push(b[j].toUpperCase());

}

c.push(" ");

}

console.log(c.join(""));

**Output:**

SUNDARI ASVANTH NIMALAN NIVISHA

c. Sum of all numbers in an array

var arr=[12,9,86,45,27,53];

sum=0;

(function()

{

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

{

sum=sum+arr[i];

}

})();

console.log(sum);

**output:**

232

d. Return all the prime numbers in an array

let arr=[5,6,9,11];

let prime=[];

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

{

var count=0;

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

{

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

count++;

}

if(count===0)

prime.push(arr[i]);

}

console.log(prime);

**output:**

[ 5, 11 ]

e. Return all the palindromes in an array

let arr=["abc","ada","all"];

let palindrome=[];

var final=[];

var check1=[];

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

{

var check=[];

var plaindrome=arr[i].split("");

for(var j=plaindrome.length-1;j>=0;j--)

{

check.push(plaindrome[j]);

}

check1=check.join("");

if(check1==arr[i])

final.push(arr[i]);

}

console.log(final);

output:

[ 'ada' ]

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

var a=[10,20,30];

var b=[40,50,60];

var c=[];

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

{

c.push(a[i]);

}

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

{

c.push(b[i]);

}

n=c.length/2;

var xx=c[n];

var yy=c[n-1];

result=(xx+yy)/2;

console.log(result);

**Output:**

35

g. Remove duplicates from an array

var a=[10,20,30,70,30,90,10];

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

{

for(var j=i+1;j<a.length;j++)

{

if(a[i]===a[j])

a.splice(j,1);

}

}

console.log(a);

**Output:**

[ 10, 20, 30, 70, 90 ]

h. Rotate an array by k times

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

k=2;

for(i=0;i<k;i++)

{

a.unshift(a[a.length-1]);

a.pop();

}

console.log(a);

Output:

[ 4, 5, 1, 2, 3 ]