1. Do the below programs in anonymous function & IIFE
   1. Print odd numbers in an array
   2. Convert all the strings to title caps in a string array
   3. Sum of all numbers in an array
   4. Return all the prime numbers in an array
   5. Return all the palindromes in an array
   6. Return median of two sorted arrays of same size
   7. Remove duplicates from an array
   8. Rotate an array by k times

**ANSWERS:**

A) Print odd numbers in an array

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

var compute=function(arr){

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

if(arr[i]%2===1){

console.log(arr[i]);

}

}

}

compute(arr);

c) Sum of all numbers in an array

const array = [17,18,333];

let sum = 0;

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

sum += array[i];

}

console.log(sum)

d) Return all the prime numbers in an array

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

const isPrime = n => {

if (n===1){

return false;

}else if(n === 2){

return true;

}else{

for(let x = 2; x < n; x++){

if(n % x === 0){

return false;

}

}

return true;

};

};

const filterPrime = arr => {

const filtered = arr.filter(el => !isPrime(el));

return filtered;

};

console.log(filterPrime(arr));

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

const arr1 = [10,11,,12,13,14,15];

const arr2 = [16,17,18,19,20];

const median = (a, b) => {

//Sort the array

let c = [...a, ...b].sort((a, b) => a - b);

//Get the floor value

const half = c.length / 2 | 0;

//If odd then return middle element

if (c.length % 2) return c[half];

//If even then return the average of two mid elements

return (c[half] + c[half - 1]) / 2;

}

console.log(median(arr1, arr2));

g) Remove duplicates from an array

var names = ["surender","mukesh","kumarran","venkatesh","mukesh","kumarran"];

//we can use number also instead

var uniq = names.reduce(function(a,b){

if (a.indexOf(b) < 0 ) a.push(b);

return a;

},[]);

console.log(uniq)

h)Rotate an array by k times

const arr = [1, 2,3,4,5,6,7,8,9];

const rotatedArr = arr.map((e, i) => arr[arr.length-i-1])

console.log(rotatedArr)