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

var result = [];

var odd = function(arr)

{

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

{

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

result.push(arr[i])

}

}

return result;

}

console.log(odd(arr=[1,2,3,4,5]));

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

var result = [];

var string = function(array){

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

result.push(array[i].toUpperCase());

}

return result;

}

console.log(string(array = ["donda","smit"]));

1. Sum of all numbers in an array

var result = [];

var sum = 0;

var num = function(array)

{

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

{

sum = sum + array[i];

}

result.push(sum);

return result ;

}

console.log(num(array = [1,2,3,4,5]));

1. Return all the prime numbers in an array:

var result = [];

var k=0;

let prime = function(array)

{

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

{

if(array[i]===1)

{

continue;

}

else if(array[i]===2)

{

k=1;

result.push(array[i]);

// console.log(arr[i]);

}

k=0;

for(j=2;j<i;j++)

{

// console.log("a")

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

{

k=1;

break;

}

}

if(k===0 && array[i]!=2)

{

result.push(array[i])

// console.log(arr[i]);

}

}

if(k==1){

return result;

}

};

console.log(prime(arr = [1,2,3,4,5,6,7,8,9,10]));

1. Return all the palindromes in an array:

var reverse = 0;

var result = [];

var isPalindrome = function (num){

var orgnum = num;

while (num!=0){

reverse= (reverse\*10) + (num%10);

num = parseInt(num/10);

}

if (orgnum == reverse){

result.push(reverse);

return result;

}

else

{

return "is not palidrome number" ;

}

};

console.log(isPalindrome(number = [121]));

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

var sortnum = function (a,b){

var merge = [...arr,...arr1].sort((a,b) => a-b)

var midnum = parseInt(merge.length/2);

if (merge[midnum] % 2 ===0)

{

return (merge[midnum] + merge[midnum-1]) /2

}

return merge[midnum]

}

var arr=[1,3,5,7,9]

var arr1=[2,4,6,8,10]

console.log(sortnum(arr,arr1))

1. Remove duplicates from an array:

var result= [];

var num = function (arr){

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

{

if (arr[i]==arr[i+1]) {

}

else

{

result.push(arr[i])

}

}

console.log(result)

}

num(arr=[2,4,4,5,12,12,13])

1. Rotate an array by k times\

var rotate =function (A,n,l=A.length) {

return A.map((x,i,a) => A[(((n+i)%l) + l) % l])

}

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

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

var result = [];

var odd = (arr) =>

{

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

{

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

result.push(arr[i])

}

}

return result;

}

console.log(odd(arr=[11,12,13,14,15,16]));

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

var result = [];

var string =(array) => {

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

result.push(array[i].toUpperCase());

}

return result;

}

console.log(string(array = ["donda","smit"]));

1. Sum of all numbers in an array :

var result = [];

var sum = 0;

var num = (array) =>

{

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

{

sum = sum + array[i];

}

result.push(sum);

return result ;

}

console.log(num(array = [1,2,3,4,5]);

1. Return all the prime numbers in an array

var result = [];

var k=0;

let prime =(array) =>

{

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

{

if(array[i]===1)

{

continue;

}

else if(array[i]===2)

{

k=1;

result.push(array[i]);

// console.log(arr[i]);

}

k=0;

for(j=2;j<i;j++)

{

// console.log("a")

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

{

k=1;

break;

}

}

if(k===0 && array[i]!=2)

{

result.push(array[i])

// console.log(arr[i]);

}

}

if(k==1){

return result;

}

};

console.log(prime(arr = [1,2,3,4,5,6,7,8,9,10]));

1. Return all the palindromes in an array:

var reverse = 0;

var result = [];

var Palindrome = (num) => {

var orgnum = num;

while (num!=0){

reverse= (reverse\*10) + (num%10);

num = parseInt(num/10);

}

if (orgnum == reverse)

result.push(reverse);

return result;

}

else

{

return "is not palidrome number" ;

}

};

console.log(Palindrome(number = [121]));