**//a. Print odd numbers in an array using anonymous function**

var findOdd = function(arr){

var temp=[];

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

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

temp.push(arr[index]);

}

}

return temp;

}

console.log(findOdd([1,2,3,4,5]));

**//a. Print odd numbers in an array using IIFE**

(function(arr){

var temp=[];

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

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

temp.push(arr[index]);

}

}

console.log(temp);

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

/\*

OUTPUT:

[1,3,5]

\*/

**//b. Convert all the strings to title caps in a string array using anonymous function**

var TitleCase=function(arr){

var temp=[];

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

temp.push(arr[index][0].toUpperCase() + arr[index].slice(1));

}

return temp;

}

console.log(TitleCase([“sukumar”,”karunakaran”,”wow”]));

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

(function(arr){

var temp=[];

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

temp.push(arr[index][0].toUpperCase() + arr[index].slice(1));

}

console.log(temp);

})([“sukumar”,”karunakaran”,”wow”]);

/\*

OUTPUT:

[ ‘Sukumar’, ‘Karunakaran’, ‘Wow’ ]

\*/

**//c. Sum of all numbers in an array using anonymous function**

var SumOfArray=function(arr){

var sum=0;

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

sum+=arr[index];

}

return sum;

}

console.log(SumOfArray([1,2,3,4,5]));

**//c. Sum of all numbers in an array using IIFE function**

(function(arr){

var sum=0;

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

sum+=arr[index];

}

console.log(sum);

})([1,2,3,4,5])

/\*

OUTPUT:

15

\*/

**//d. Return all the prime numbers in an array using anonymous function**

var PrimeArray=function(arr){

var temp=[];

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

let flag=0;

for (let index2 = 2; index2 < arr[index]; index2++) {

if (arr[index] % index2 ==0){

flag = 1;

break;

}

}

if(arr[index]>1 && flag==0){

temp.push(arr[index]);

}

}

return temp;

}

console.log(PrimeArray([1,2,7,5,8,11]));

**//d. Return all the prime numbers in an array using IIFE function**

(function(arr){

var temp=[];

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

let flag=0;

for (let index2 = 2; index2 < arr[index]; index2++) {

if (arr[index] % index2 ==0){

flag = 1;

break;

}

}

if(arr[index]>1 && flag==0){

temp.push(arr[index]);

}

}

console.log(temp);

})([1,2,7,5,8,11]);

/\*

OUTPUT:

[ 2, 7, 5, 11 ]

\*/

**//e. Return all the palindromes in an array using anonymous function**

var isPalindrome=function(arr){

var temp=[];

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

var str=arr[index];

var len=str.length;

for (let index2 = 0; index2 < (len/2)-1; index2++) {

if(str[index2] == str[len-1-index2]){

temp.push(str);

}

}

}

return temp;

}

console.log(isPalindrome([“enant”,”wow”,”yes”]));

**//e. Return all the palindromes in an array using IIFE function**

(function(arr){

var temp=[];

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

var str=arr[index];

var len=str.length;

for (let index2 = 0; index2 < (len/2)-1; index2++) {

if(str[index2] == str[len-1-index2]){

temp.push(str);

}

}

}

console.log(temp);

})(["tenent","wow","yes"]);

/\*

OUTPUT:

[ 'tenent', 'wow' ]

\*/

**//f. Return median of two sorted arrays of the same size using anonymous function**

var getMedian=function(arr1,arr2) {

if(arr1.length !==arr2.length){

return “length of two arrays are not same”;

}

else{

let temp=[…arr1,…arr2];

temp = temp.sort(function(a, b){return a – b});

let n=temp.length;

return (temp[n/2-1]+temp[n/2])/2;

}

}

console.log(getMedian([1,12,15,26,38],[2,13,17,30,45]));

**//f. Return median of two sorted arrays of the same size using IIFE function**

(function(arr1,arr2) {

if(arr1.length !==arr2.length){

return "length of two arrays are not same";

}

else{

let temp=[...arr1,...arr2];

temp = temp.sort(function(a, b){return a - b});

let n=temp.length;

console.log((temp[n/2-1]+temp[n/2])/2);

}

})([1,12,15,26,38],[2,13,17,30,45]);

/\*

OUTPUT:

16

\*/

**//g. Remove duplicates from an array using anonymous function**

var RemoveDuplicate = function(arr){

var ele=[];

var count =0;

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

count =0;

for(let j =I; j<arr.length;j++){

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

count++;

}

}

if(count==1){

ele.push(arr[i]);

}

}

return ele

}

console.log(RemoveDuplicate([3,’q’,’q’,’q’,2,’q’,2,4]));

**//g. Remove duplicates from an array using IIFE function**

(function(arr){

var ele=[];

var count =0;

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

count =0;

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

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

count++;

}

}

if(count==1){

ele.push(arr[i]);

}

}

console.log(ele);

})([3,'q','q','q',2,'q',2,4]);

/\*

OUTPUT:

[ 3, 'q', 2, 4 ]

\*/

**//h. Rotate an array by k times using anonymous function**

var rotateArray=function(arr,n){

if(n==undefined || n<=0){

return arr;

}

else {

var temp=[];

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

temp = arr.slice(1);

temp.push(arr[0]);

arr=temp;

}

}

return temp;

}

console.log(rotateArray([1,2,3,4,5],3))

**//h. Rotate an array by k times using IIFE function**

(function(arr,n){

if(n==undefined || n<=0){

console.log(arr);

}

else {

var temp=[];

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

temp = arr.slice(1);

temp.push(arr[0]);

arr=temp;

}

}

console.log(temp);

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

/\*

OUTPUT:

[ 4,5,1,2,3 ]

\*/