**Do the below programs in anonymous function & IIFE**

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

ANS // **function capitalize (phrase) {**

**let arr = phrase.split(" ");**

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

**arr[i] = arr[i].charAt(0).toUpperCase() + arr[i].substr(1);}**

**return arr.join(" ");}**

**console.log(capitalize('the quick brown fox')); 🡺 The Quick Brown Fox**

Sum of all numbers in an array

**function sumoOfALL (arr){**

**let sum =0;**

**for ( let a of arr);**

**sum + =a;**

**return sum ;**

**}console.log (sumoOfALL([3,3,4,5,4])); 🡺 19 /**

Return all the prime numbers in an array

**Ans // function primeFactorsTo(num){**

**var store = [], i, j, primes = [];**

**for (i = 2; i <= num; ++i) {**

**if (!store [i]) {**

**primes.push(i);**

**for (j = i << 1; j <= num; j += i) {**

**store[j] = true;} } } return primes;} console.log(primeFactorsTo(100));**

**Remove duplicates from an array**

var names = ["Mike","Matt","Nancy","Adam","Jenny","Nancy","Carl", "Mike", "Nancy"]

var noDupe = Array.from(new Set(names));

console.log(noDupe**); 🡺**

**[ 'Mike', 'Matt', 'Nancy', 'Adam', 'Jenny', 'Carl' ]**

Rotate an array by k times

**function rotatearr (numbers,k){**

**k= k % numbers.length ;**

**reverse (numbers,0,numbers.length-1);**

**reverse (numbers,0,k-1);**

**reverse (numbers, k,numbers.length-1);**

**return numbers;**

**}**

**function reverse (numbers, start,end){**

**while (start <end){**

**let temp = numbers[start];**

**numbers[start]= numbers[end];**

**numbers[end]=temp;**

**start ++ ;**

**end --;**

**}**

**return numbers;**

**}**

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

Do the below programs in arrow functions

**Print odd numbers in an array**

let sum = [1,2,3,4,5,6,7,8,9,10,11,12];

let odds = sum.filter(n => n%2);

console.log(odds) 🡺 [1,3,5,7,9,11]

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

let uppercase = (str) =>

str.split(' ').map((v) =>v.charAt(0).toUpperCase() + v.slice(1)).join(' ');

console.log(uppercase("the quick brown fox"));

🡺 The Quick Brown Fox

**Sum of all numbers in an array**

var sum =[3,4,5,6,7];

const res=sum.reduce((ale,ele)=> ale+ele);

console.log(res); 🡺 25 /

Return all the prime numbers in an array

Ans // var prime = [2,3,5,7];

for(var i = 0; i < 100; i++){

var isPrime = prime.map(n => i%n > 0).filter(t => !t).length <= 0;

if(isPrime || prime.includes(i)){

console.log(i); } }

**JavaScript Functions — Warmup Pbms**

**Write a function called “addFive”. Given a number, “addFive” returns 5 added to that number**.

**Ans //**

var arr= [5,0,-5];

var total=arr.map((ele)=> ele+5);

console.log (total); 🡺 **[10,5,0]**

**Fill in your code that takes an number minutes and converts it to seconds**

**Ans // function convert (num){**

**m=Math.floor(num/60);**

**s=num%60;**

**return(m+'minutes'+':'+ s+'seconds'); }**

**console.log(convert(300)); 🡺** 5minutes:0seconds

**console.log(convert(180)); 🡺**3minutes:0seconds

**console.log(convert(120)); 🡺**2minutes:0seconds

**Create a function that takes a number as an argument, increments the number by +1 and returns the result.**

Ans //

**var arr = [0,9,-3];**

**var total =arr.map((ele)=>ele+1);**

**console.log (total); 🡺 [1,10,-2]**

**create a function that takes an array and returns the first element**

function getFirstValue(arr) {

let firstOne= arr[0]

return arr[0];

}console.log (getFirstValue([1,2,3])); 🡺1

console.log (getFirstValue([80,5,100])); 🡺80

console.log (getFirstValue([-500,0,50]));🡺-500

**Create a function that receives an array of numbers and returns an array containing only the positive numbers**

**Ans //**

var ar = [-5, 10, -3, 12, -9, 5, 90, 0, 1];

let posnum=ar.filter((e)=>e>=0);

console.log (posnum); 🡺 **[ 10, 12, 5, 90, 0, 1 ]**

Given a first and a last name, “getFullName” returns a single string with the given first and last names separated by a single space.

**Ans //** function getFullName(firstName, lastName) {

var concat =firstName + ' ' + lastName;

return concat;}

var output = getFullName('Guvi', 'Geek');

console.log(output);

**Given an array and an integer, “getNthElement” returns the element at the given integer, within the given array. If the array has a length of 0, it should return ‘undefined’.**

**Ans // function compute (arr,n){**

**return arr.slice (1,2);}**

**console.log (compute([1,3,5],1)); 🡺 [3]**

**Given an array, “getLastElement” returns the last element of the given array. If the given array has a length of 0, it should return ‘-1’.  
Input:  
getLastElement([1, 2, 3, 4]);**

**Ans // function compute (arr,n){**

**return arr.slice (3,4);}**

**console.log (compute([1,2,3,4])); 🡺 4**

**Given an object and a key, “removeProperty” removes the given key from the given object.  
Input:  
removeProperty(obj, “name”);**

**Ans// function removeproperty(obj,key){**

**if (obj&&obj[key])delete obj[key];}**

**var obj ={name:'sakthi',**

**age:27 };**

**removeproperty(obj,'name');**

**console.log (obj.name); 🡺 Undefined**

**Find the maximum number in an array of numbers**

var arr = [-5, 10, -3, 12, -9, 5, 90, 0, 1];

var Max = arr[0];

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

if (Max < arr[i] ) {

Max = arr[i]; }}

console.log(Max); 🡺 90 /

**Reverse a string**

var word = "GUVI GEEK";

var reverseWord = word.split("").reverse().join(" ");

console.log( reverseWord); 🡺 **K E E G I V U G**

**Create a function that will merge two arrays and return the result as a new array**

**Ans //**

var a = [1,2,3];

var b = [4,5,6];

var union = [...new Set([...a, ...b])];

console.log(union); 🡺 **[ 1, 2, 3, 4, 5, 6 ]**