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

**Print odd numbers in an array anonymous function**

var number = [2, 3, 4, 1, 51, 6, 7]

var oddno = []

var oddnumber = function(number) {

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

if (number[i] % 2 === 1)

oddno.push(number[i])

}

return oddno

}

console.log(oddnumber(number))

**Print odd numbers in an array IIFE function**

var number = [2, 3, 4, 1, 51, 6, 7]

var oddno = [];

(function(number) {

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

if (number[i] % 2 === 1)

oddno.push(number[i])

}

console.log(oddno)

})(number);

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

function

var string = ["hi", "welcome", "guvi"]

var char

var upperstring = []

var result = []

var titlecaps = function(string) {

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

char = [...string[i]]

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

let index = char.indexOf(char[j]);

if (index == 0) {

var first\_string = char[j].toUpperCase()

upperstring.push(first\_string)

} else {

var last\_string = char[j]

upperstring.push(last\_string)

}

}

var join = upperstring.join("")

result.push(join)

upperstring.splice(0, upperstring.length);

}

return result

}

console.log(titlecaps(string))

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

var string = ["hi", "welcome", "guvi"]

var char

var upperstring = []

var result = [];

(function(string) {

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

char = [...string[i]]

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

let index = char.indexOf(char[j]);

if (index == 0) {

var first\_string = char[j].toUpperCase()

upperstring.push(first\_string)

} else {

var last\_string = char[j]

upperstring.push(last\_string)

}

}

var join = upperstring.join("")

result.push(join)

upperstring.splice(0, upperstring.length);

}

console.log(result)

})(string)

**Return all the palindromes in an array in anonymous**

var string=["hih", "civic", "guvi"]

var char

var stringlist=[]

var palindromes =[]

var palindromeslist=function(string)

{

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

{

char=[...string[i]]

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

{

if(char[j]===char[char.length-1-j])

{

var first\_string=char[j]

stringlist.push(first\_string)

}

}

var join=stringlist.join("")

palindromes.push(join)

stringlist.splice(0, stringlist.length);

}

return palindromes

}

console.log(palindromeslist(string))

**Return all the palindromes in an array in IFFE**

var string=["hih", "civic", "guvi"]

var char

var stringlist=[]

var palindromes =[];

(function(string) {

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

{

char=[...string[i]]

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

{

if(char[j]===char[char.length-1-j])

{

var first\_string=char[j]

stringlist.push(first\_string)

}

}

var join=stringlist.join("")

palindromes.push(join)

stringlist.splice(0, stringlist.length);

}

console.log(palindromes)

})(string);

**Return all the prime numbers in an array anonymous function**

var numArray = [2, 3, 4, 5, 6, 7, 8, 9, 10]

var primeno=function(numArray)

{

numArray = numArray.filter((number) => {

for (var i = 2; i <= Math.sqrt(number); i++) {

if (number % i === 0) return false;

}

return true;

});

return numArray

}

console.log(primeno(numArray));

**Return all the prime numbers in an array IIFE**

var numArray = [2, 3, 4, 5, 6, 7, 8, 9, 10]

(function(numArray){

numArray = numArray.filter((number) => {

for (var i = 2; i <= Math.sqrt(number); i++) {

if (number % i === 0) return false;

}

return true;

});

console.log( numArray)

})(numArray)

**Sum of all numbers in an array anonymous function**

var arr = [5, 4, 6, 7]

var sum = 0;

var sumofNum = function(arr) {

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

sum = sum + arr[i]

return sum

}

console.log(sumofNum(arr))

**Sum of all numbers in an array IFFE function**

var arr = [5, 4, 6, 7]

var sum = 0;

(function(arr) {

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

sum = sum + arr[i]

}

console.log(sum)

})(arr);

**Rotate an array by k times anonymous function**

var arr = [5, 4, 6, 7]

var k = 2

var temp;

var rotatearray = function(arr, k) {

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

temp = arr[0];

for (var j = 0; j < arr.length - 1; j++)

arr[j] = arr[j + 1];

arr[arr.length - 1] = temp;

}

return arr.join(" ")

}

console.log(rotatearray(arr, k))

**Rotate an array by k times IFFE function**

var arr = [5, 4, 6, 7]

var k = 2

var temp;

(function(arr, k) {

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

temp = arr[0];

for (var j = 0; j < arr.length - 1; j++)

arr[j] = arr[j + 1];

arr[arr.length - 1] = temp;

}

console.log(arr.join(" "))

})(arr, k);

**Remove duplicates from an array anonymous function**

const arr = [1, 2, 3, 2, 3];

var getUnique = function(arr) {

let uniqueArr = [];

for (let i of arr) {

if (uniqueArr.indexOf(i) === -1) {

uniqueArr.push(i);

}

}

return uniqueArr;

}

console.log(getUnique(arr));

**Remove duplicates from an array IFFE function**

const arr = [1, 2, 3, 2, 3];

(function(arr) {

let uniqueArr = [];

for (let i of arr) {

if (uniqueArr.indexOf(i) === -1) {

uniqueArr.push(i);

}

}

console.log(uniqueArr)

})(arr);

**Return median of two sorted arrays of the same size anonymous function**

var arr1 = [1, 2, 12, 13, 15];

var arr2 = [17, 26, 30, 38, 45];

var arr1 = [...arr1, ...arr2]

var medianofarray = function(arr1) {

var value = arr1.length / 2

var m1 = arr1[value - 1]

var m2 = arr1[value]

var median = (m1 + m2) / 2

return median

}

console.log(medianofarray(arr1))

**Return median of two sorted arrays of the same size IFFE function**

var arr1 = [1, 2, 12, 13, 15];

var arr2 = [17, 26, 30, 38, 45];

var arr1 = [...arr1, ...arr2];

(function(arr1) {

var value = arr1.length / 2

var m1 = arr1[value - 1]

var m2 = arr1[value]

var median = (m1 + m2) / 2

console.log(median)

})(arr1);

**Do the below programs in arrow functions**

**Print odd numbers in an array**

var number = [2, 3, 4, 1, 51, 6, 7]

var oddno = []

var oddnumber = (number) => {

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

if (number[i] % 2 === 1)

oddno.push(number[i])

}

return oddno

}

console.log(oddnumber(number))

**Sum of all numbers in an array**

var arr = [5, 4, 6, 7]

var sum = 0;

var sumofnum = (arr) => {

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

sum = sum + arr[i]

return sum

}

console.log(sumofnum(arr)

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

var string = ["hi", "welcome", "guvi"]

var char

var upperstring = []

var result = [];

var titlecap = (string) => {

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

char = [...string[i]]

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

let index = char.indexOf(char[j]);

if (index == 0) {

var first\_string = char[j].toUpperCase()

upperstring.push(first\_string)

} else {

var last\_string = char[j]

upperstring.push(last\_string)

}

}

var join = upperstring.join("")

result.push(join)

upperstring.splice(0, upperstring.length);

}

return result

}

console.log(titlecap(string))

**Return all the palindromes in an array**

var string=["hih", "civic", "guvi"]

var char

var stringlist=[]

var palindromes =[];

var palindromeslist=(string)=>{

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

{

char=[...string[i]]

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

{

if(char[j]===char[char.length-1-j])

{

var first\_string=char[j]

stringlist.push(first\_string)

}

}

var join=stringlist.join("")

palindromes.push(join)

stringlist.splice(0, stringlist.length);

}

return palindromes

}

console.log(palindromeslist(string))

**Return all the prime numbers in an array**

var numArray = [2, 3, 4, 5, 6, 7, 8, 9, 10]

var primeno=(NumArray)=>{

numArray = numArray.filter((number) => {

for (var i = 2; i <= Math.sqrt(number); i++) {

if (number % i === 0) return false;

}

return true;

});

return numArray

}

console.log(primeno(numArray));

**GUVI : Zen Code-Sprints :— JavaScript Functions — Warmup Pbms**

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

var num = 10;

function addFive(num) {

return num+5

}

var result = addFive(num)

2.Write a function called “getOpposite”.  
Given a number, return its opposite

var num = 5;

function getOpposite(num) {

if(Number.isInteger(num))

{return num\*(-1);

}

else()

{return -1

}

}

var result = getOpposite(num)

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

var min = 5;

function toSeconds(min) {return min\*60;}

var secs = toSeconds(min)

4.Create a function that takes a string and returns it as an integer.

var mystr = "5";

function toInteger(mystr) {return parseInt(mystr);}

var myint = toInteger(mystr)

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

var myint = 0;

function nextNumber(myint) {return myint+1;}

var myNextint = nextNumber(myint)