anonymous function

1(a) let odd=function(arr){ //function decleration

let temp=[];//i took empty array

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

if(arr[i]%2==1){//and then if condition for odd number

temp.push(arr[i]);//then push odd number

}

}

return temp; //returing the temp array

}

console.log(odd([1,2,3,4]));//then function calling and print the output

1(a1) (function(arr){

let temp=[];//i took empty array

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

if(arr[i]%2==1){//and then if condition for odd number

temp.push(arr[i]);//then push odd number

}

}

console.log(temp); //returing the temp array

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

1(b)anonymous function

function cap(str) { //function declaration

str = str.toUpperCase(); //

return str

}

console.log(cap("geek and guvi"));

(b)IIFE function

(function(str){

str = str.toUpperCase()

console.log(str);

})(("geek and guvi"));

1(c) anonymous function

let res=function(arr){

let sum=0;

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

sum=sum + arr[i];

}

return sum;

}

console.log(res([1,2,3,4,5,6]));

(C)IIFE function

(function (arr){

let sum=0;

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

sum=sum + arr[i];

}

console.log(sum);

})([1,2,3,4,5,6]);

1(d)anonymous func

let prime = function(pa) {

let temp1 = [];

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

let count = 0;

for (let j = 2; j < pa[i]; j++) {

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

count++;

}

if ((count === 0) && (pa[i] != 1))

temp1.push(pa[i]);

}

return temp1;

}

console.log(prime([1, 2, 3, 15, 7, 9, 17, 23, 45]));

(d)IFFI func

(function (prime){

let temp1 = [];

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

let count = 0;

for (let j = 2; j < prime[i]; j++) {

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

count++;

}

if ((count === 0) && (prime[i] != 1))

temp1.push(prime[i]);

}

console.log(temp1);

})([1, 2, 3, 15, 7, 9, 17, 23, 45]);

1(e)anonymous function

let palin = function(stra) {

// find the length of a string

let temp2a = [];

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

let s=stra[i], l = s.length;

let mid=Math.floor(l/2);

let count2a = 0;

for (let j = 0; j < mid; j++) {

// check if first and last string are same

if (s[j] !== s[l - 1 - j])

count2a++;

}

if (count2a === 0)

temp2a.push(s)

}

return temp2a;

}

console.log(palin(['eye', 'voice','ladder','radar']));

1(e)IFFI function

(function(stra) {

// find the length of a string

let temp2a = [];

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

let s=stra[i], l = s.length;

let mid=Math.floor(l/2);

let count2a = 0;

for (let j = 0; j < mid; j++) {

// check if first and last string are same

if (s[j] !== s[l - 1 - j])

count2a++;

}

if (count2a === 0)

temp2a.push(s)

}

console.log(temp2a);

}) ((['eye', 'voice','ladder','radar']));

1(f) ANONYMOUS FUNCTION

let median = function(a, b) {

//Sort the array

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

//Get the floor value

const mid = Math.floor(c.length / 2);

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

}

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

1(f)IFFI FUNCTION

(function(a, b) {

//Sort the array

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

//Get the floor value

const mid = Math.floor(c.length / 2);

console.log((c[mid] + c[mid - 1]) / 2);

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

1(g)ANONYMOUS FUNCTION

let duplicate = function(chars) {

let result = [...new Set(chars)];

return result;

}

console.log(duplicate(['a', 'a', 'b', 'b', 's', 'j']));

1(g)IFFI FUNCTION

(function(chars) {

let result = [...new Set(chars)];

console.log( result);

})(['a', 'a', 'b', 'b', 's', 'j'])

1(h)ANONYMOUS FUNCTION

let rotateArray = function(nums,k) {

// for (let i = 0; i < k; i++) {

// nums.unshift(nums.pop());

// }

// return nums;

// }

// console.log(rotateArray([1,2,3,4,5,6],3));

1(h)IFFI FUNCTION

(function(nums,k) {

// for (let i = 0; i < k; i++) {

// nums.unshift(nums.pop());

// }

// console.log( nums);

// })([1,2,3,4,5,6],3)

2)(a)

// var num = 10;

// function addFive(num) {

// return num+5;

// }

// var result = addFive

// console.log(addFive(5));

// console.log(addFive(0));

// console.log(addFive(-5));

2(b)

// var min = 5;

// function toSeconds(min) {

// return min\*60;

// }

// var secs = toSeconds(min)

// console.log(toSeconds(5));

// console.log(toSeconds(3));

// console.log(toSeconds(2));

2(d)

// var mystr = "5";

// function toInteger(mystr) {

// parseInt(mystr)

// return mystr;

// }

// var myint = toInteger(mystr)

// console.log(toInteger("6"));

// console.log(toInteger("1000"));

// console.log(toInteger("12"));

2(e)

// var myint = 0;

// function nextNumber(myint) {

// return myint+1;

// }

// var myNextint = nextNumber(myint)

// console.log(nextNumber(0));

// console.log(nextNumber(9));

// console.log(nextNumber(-3));

// 2(f)Create a function that takes an array and returns the first element.

// Examples

// getFirstElement([1, 2, 3]) ➞ 1

// getFirstElement([80, 5, 100]) ➞ 80

// getFirstElement([-500, 0, 50]) ➞ -500

// Ans:

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

// function getFirstElement(arr) {

// return arr[0];

// }

// var data = getFirstElement(arr)

// console.log(getFirstElement([1,2,3]));

// console.log(getFirstElement([80,5,100]));

// console.log(getFirstElement([-500,0,50]));

// // 2(g)Convert Hours into Seconds

// // Write a function that converts hours into seconds.

// // Examples

// // hourToSeconds(2) ➞ 7200

// // hourToSeconds(10) ➞ 36000

// // hourToSeconds(24) ➞ 86400

// // Ans:

// function hourToSeconds(arr) {

// return arr\*3600;

// }

// console.log(hourToSeconds(2));

// console.log(hourToSeconds(10));

// console.log(hourToSeconds(24));

// // 2(h)Find the Perimeter of a Rectangle

// // Create a function that takes height and width and finds the perimeter of a rectangle.

// // Examples

// // findPerimeter(6, 7) ➞ 26

// // findPerimeter(20, 10) ➞ 60

// // findPerimeter(2, 9) ➞ 22

// // Ans:

// function findPerimeter(num1,num2) {

// return 2\*(num1+num2);

// }

// console.log(findPerimeter(6,7));

// console.log(findPerimeter(20,10));

// console.log(findPerimeter(2,9));

// 2(i)Less Than 100?

// Given two numbers, return true if the sum of both numbers is less than 100. Otherwise return false.

// Examples

// lessThan100(22, 15) ➞ true

// // 22 + 15 = 37

// lessThan100(83, 34) ➞ false

// // 83 + 34 = 117

// function lessThan100(num1,num2) {

// if (num1+num2<100){

// return true;

// }

// else{

// return false;

// }

// }

// console.log(lessThan100(22,15));

// console.log(lessThan100(83,34));

// // 2(j)There is a single operator in JavaScript, capable of providing the remainder of a division operation. Two numbers are passed as parameters. The first parameter divided by the second parameter will have a remainder, possibly zero. Return that value.

// // Examples

// // remainder(1, 3) ➞ 1

// // remainder(3, 4) ➞ 3

// // remainder(-9, 45) ➞ -9

// // remainder(5, 5) ➞ 0

// // Ans:

// function remainder(num1,num2) {

// return (num1%num2) ;

// }

// console.log(remainder(1,3));

// console.log(remainder(3,4));

// console.log(remainder(-9,45));

// console.log(remainder(5,5));

//2(k) Check if an Integer is Divisible By Five

// Create a function that returns true if an integer is evenly divisible by 5, and false otherwise.

// Examples

// divisibleByFive(5) ➞ true

// divisibleByFive(-55) ➞ true

// divisibleByFive(37) ➞ false

// Ans;

function divisibleByFive(num1) {

if(num1%5===0){

return true;

}

else{

return false;

}

}

console.log(divisibleByFive(5));

console.log(divisibleByFive(-55));

console.log(divisibleByFive(37));

// 3(a) arrow function

let odd=(arr)=>{let temp=[];//i took empty array

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

if(arr[i]%2==1){//and then if condition for odd number

temp.push(arr[i]);//then push odd number

}

}

return temp; //returing the temp array

}

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

3(b) arrow function

let cap=(str)=>{ str = str.toUpperCase()

return str ;

}

console.log(cap("geek and guvi"));

3(d)arrow function

let prime=(pa)=>{let temp1 = [];

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

let count = 0;

for (let j = 2; j < pa[i]; j++) {

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

count++;

}

if ((count === 0) && (pa[i] != 1))

temp1.push(pa[i]);

}

return temp1;

}

console.log(prime([1,2,3,15,7,9,17,23,45]));

3(e)

let prime=(stra)=> { let temp2a = [];

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

let s=stra[i], l = s.length;

let mid=Math.floor(l/2);

let count2a = 0;

for (let j = 0; j < mid; j++) {

// check if first and last string are same

if (s[j] !== s[l - 1 - j])

count2a++;

}

if (count2a === 0)

temp2a.push(s)

}

return temp2a;

}

console.log(prime(['eye', 'voice','ladder','radar']));