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

A:Print odd numbers in an array

CODE:

(function () {

var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];

var sum=0;

for (var i = 0; i <=10; i++) {

if(numsArr[i]%2!==0)

console.log(numsArr[i])

}

})();

Output:

1

3

5

7

9

11

B.Convert all the strings to title caps

CODE:

(function (str) {

a= str.toLowerCase().split(' ').map(function(word) {

return (word.charAt(0).toUpperCase() + word.slice(1));

}).join(' ');

console.log(a);

})("converting string to titlecase");

OUTPUT:

Converting String To Titlecase

C:Sum of all numbers in an array

Code:

(function () {

var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];

var sum=0;

for (var i = 0; i <=10; i++) {

sum += numsArr[i];

}

console.log(sum);

})();

Output:

66

D.Return all the prime numbers in an array

CODE:

(function (){var numArray = [2, 3, 4, 5, 6, 7, 8, 9, 10]

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

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

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

}

return true;

});

console.log(numArray)})();

OUTPUT:

[ 2, 3, 5, 7 ]

E.Return all the palindromes in an array

CODE:

(function () {var arr = ['red', 'malayalam', 12321, 'did', 'naveen'];

const isPalindrome = el => {

const str = String(el);

let i = 0;

let j = str.length - 1;

while(i < j) {

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

i++;

j--;

}

else {

return false;

}

}

return true;

};

const findPalindrome = arr => {

return arr.filter(el => isPalindrome(el));

};

console.log(findPalindrome(arr))})();

OUTPUT:

[ 'malayalam', 12321, 'did' ]

F.Remove duplicates in an array:

CODE:

(function () {var removeDuplicates= (arr, n)=>

{

if (n==0 || n==1)

return n;

var temp = new Array(n);

var j = 0;

for (var i=0; i<n-1; i++)

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

temp[j++] = arr[i];

temp[j++] = arr[n-1];

for (var i=0; i<j; i++)

arr[i] = temp[i];

return j;

}

var arr = [1, 2, 2, 3, 4, 4, 4, 5, 5];

var n = arr.length;

n = removeDuplicates(arr, n);

for (var i=0; i<n; i++)

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

OUTPUT:

1

2

3

4

5

**2.WARM-UP PROBLEMS:**

A.Write a function called “addFive”.

Given a number, “addFive” returns 5 added to that number.

CODE:

var num = 10;

function addFive(num) {

return num+5;

}

var result = addFive(num)

console.log(result)

OUTPUT:

15

B: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);

console.log(secs)

OUTPUT:

300

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

CODE:

var mystr = "5";

function toInteger(mystr) {

return parseInt(mystr);

}

var myint = toInteger(mystr)

console.log(myint)

console.log(typeof (myint))

OUTPUT:

5

number

D:

CODE:

function getFullName(firstName, lastName){

return `${firstName} ${lastName}`

}

console.log(getFullName("GUVI","Geek"));

OUTPUT:

GUVI Geek

**3.Do the below programs in arrow functions**

A.Print odd numbers in an array

CODE:

let numberF= () => {

var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];

var sum=0;

for (var i = 0; i <=10; i++) {

if(numsArr[i]%2!==0)

console.log(numsArr[i])

}

};

numberF();

OUTPUT:

1

3

5

7

9

11

B.Convert all the strings to title caps

CODE:

let fun = (str) => {

a= str.toLowerCase().split(' ').map(function(word) {

return (word.charAt(0).toUpperCase() + word.slice(1));

}).join(' ');

console.log(a);

};

fun("converting string to titlecase");

OUTPUT:

Converting String To Titlecase

C:Sum of all numbers in an array

CODE:

let fun = (arr) => {

var sum=0;

for (var i = 0; i <=10; i++) {

sum += arr[i];

}

console.log(sum);

};

fun([ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]);

Output:

66

D.Return all the prime numbers in an array

CODE:

let fun = () => {var numArray = [2, 3, 4, 5, 6, 7, 8, 9, 10]

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

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

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

}

return true;

});

console.log(numArray);

}

fun();

OUTPUT:

[ 2, 3, 5, 7 ]

E.Return all the palindromes in an array

CODE:

var arr = ['red', 'malayalam', 12321, 'did', 'naveen'];

let isPalindrome = (el) => {

const str = String(el);

let i = 0;

let j = str.length - 1;

while(i < j) {

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

i++;

j--;

}

else {

return false;

}

}

return true;

};

let findPalindrome = arr => {

return arr.filter(el => isPalindrome(el));

};

console.log(findPalindrome(arr));

OUTPUT:

[ 'malayalam', 12321, 'did' ]