1. **Do the below programs in anonymous function & IIFE**
2. **Print odd numbers in an array**

var odd = function(...value){

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

if(value[i]%2!==0){

console.log(value[i]);

}

}

};

odd(1,2,3,4,5,6,7,8,9,10);

**Output:**

1

3

5

7

9

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

let str = " i am a string";

var titleCaps = function (str) {

str = str.toLowerCase().split(" ");

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

str[i] = str[i].charAt(0).toUpperCase() + str[i].slice(1);

}

return str.join(" ");

};

console.log(titleCaps(str));

##### Output:

I Am A String

1. **Sum of all numbers in an array**

var sum = 0;

var odd = function(...value){

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

sum = sum + value[i];

}

console.log(sum);

};

odd(1,2,3,4,5);

##### Output:

15

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

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

var primeNum = function (num) {

num.map((number) => {

for (let i = 2; i < number; i++) {

if (number % i === 0) {

let index = num.indexOf(number);

return num.splice(index, 1);

}

}

});

return num;

};

console.log(primeNum(val));

##### Output:

[ 1, 2, 3, 5 ]

1. **Return all the palindromes in an array**

const arr = ["mom", 1344, 12321, "bye", "did", "cars"];

const palindrome = function (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 = function (arr) {

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

};

console.log(findPalindrome(arr));

##### Output:

[ 'mom', 12321, 'did' ]

1. **Return median of two sorted arrays of same size**

function getMedian(ar1, ar2, n)

{

var i = 0;

var j = 0;

var count;

var m1 = -1, m2 = -1;

for (count = 0; count <= n; count++) {

if (i == n) {

m1 = m2;

m2 = ar2[0];

break;

}

else if (j == n) {

m1 = m2;

m2 = ar1[0];

break;

}

if (ar1[i] <= ar2[j]) {

m1 = m2;

m2 = ar1[i];

i++;

}

else {

m1 = m2;

m2 = ar2[j];

j++;

}

}

return (m1 + m2)/2;

}

var ar1 = [1, 12, 15, 26, 38];

var ar2 = [2, 13, 17, 30, 45];

var n1 = ar1.length;

var n2 = ar2.length;

if (n1 == n2)

console.log("Median is "+ getMedian(ar1, ar2, n1));

else

console.log("unequal size");

##### Output:

Median is 16

1. **Remove duplicates from an array**

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

var uniqueArr = function (data) {

return [...new Set(data)]; //to create new set

};

console.log(uniqueArr(data));

##### Output:

[ 1, 2, 3, 4, 5 ]

1. **Rotate an array by k times**

var data = [1, 2, 3, 4, 5, 6];

var rotate = function (nums, k) {

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

nums.unshift(nums.pop());

}

return nums;

};

console.log(rotate(data, 3));

##### Output:

[ 4, 5, 6, 1, 2, 3 ]

1. **Do the below programs in arrow functions**
2. **Print odd numbers in an array**

var arr = [1, 2, 3, 4, 5, 6];

var ans = [];

var odd = (x) => {

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

if (x[i] % 2 != 0) {

ans.push(x[i]);

}

}

return ans;

};

console.log(odd(arr));

##### Output:

[ 1, 3, 5 ]

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

let str = " i am a string";

var titleCaps = (str) => {

str = str.toLowerCase().split(" ");

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

str[i] = str[i].charAt(0).toUpperCase() + str[i].slice(1);

}

return str.join(" ");

};

console.log(titleCaps(str));

##### Output:

I Am A String

1. **Sum of all numbers in an array**

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

var sumOfArray = (add, sum = 0) => {

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

sum = sum + add[i];

}

return sum;

};

console.log(sumOfArray(num));

##### Output:

15

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

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

var primeNum = (num)=> {

num.map((number) => {

for (let i = 2; i < number; i++) {

if (number % i === 0) {

let index = num.indexOf(number);

return num.splice(index, 1);

}

}

});

return num;

};

console.log(primeNum(val));

##### Output:

[ 1, 2, 3, 5 ]

1. **Return all the palindromes in an array**

const arr = ["madam", 1344, 1221, "bye", "did", "cars"];

const palindrome = (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 = function (arr) {

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

};

console.log(findPalindrome(arr));

##### Output:

[ 'madam', 1221, 'did' ]