1.

a=[1,2,3,4,5,6,7];

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

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

console.log(a[i]);

}

}

2.

function titleCase(str) {

return str

.split(' ')

.map((word) => word[0].toUpperCase() + word.slice(1).toLowerCase())

.join(' ');

}

console.log(titleCase("i love india"));

3.

a=[1,2,3,4,5,6];

let sum=0;

for(i=0;i<a.length;i++)

{

sum+=a[i];

}

console.log(sum);

4.

var a = [5, 9, 63, 29, 35, 6, 55, 23]

var prime = [];

function isPrime(item) {

var dev = item / 2;

for (var j = 2; j <= dev; j++) {

if ((item % j) == 0) { // modulous

return false;

}

}

return true;

}

for (var index = 0; index < a.length; index++) {

if (isPrime(a[index])) {

prime.push(a[index])

}

}

console.log(prime);

5.

const arr = ['carecar', 1344, 12321, 'did', 'cannot'];

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));

6.

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)

document.write("Median is "+ getMedian(ar1, ar2, n1));

else

document.write("Doesn't work for arrays of unequal 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;

}

7.

var arr = ["apple", "mango", "apple",

"orange", "mango", "mango"];

function removeDuplicates(arr) {

return arr.filter((item,

index) => arr.indexOf(item) === index);

}

console.log(removeDuplicates(arr));

8.

let Array = [1, 2, 3, 4, 5];

let N = Array.length;

let K = 2;

RightRotate(Array, N, K);function RightRotate(a, n, k)

{

k = k % n;

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

if (i < k) {

document.write(a[n + i - k] + " ");

}

else {

document.write((a[i - k]) + " ");

}

}

document.write("<br>");

}

3.

a.

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

let odds = arr.filter(n => n%2)

console.log(odds)

b.

const names = ['Ali', 'Atta', 'Alex', 'John'];

const uppercased = names.map(name => name.toUpperCase());

console.log(uppercased);

c.

add = function(arr) {

return arr.reduce((a, b) => a + b, 0);

};

var arr = [3, 6, 1, 5, 8];

var sum = add(arr);

console.log(sum)

d.

let number = [1, 8, 7, 3, 2, 9, 10, 12];

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

for (let i = 2; i <= Math.sqrt(myArray); i++) {

if (myArray % i === 0) {

return false;

}

return true;

}

});

console.log(number);