1.write a program to print array of numbers count of values and value name also from array?

let res = [1,1,2,2,3,3,3,4,4,5,6] // expected output : [[1],[8,8],[1,1]]

let result = [...new Set(res)]

// console.log(result)

let count =[]

result.map((e)=>{

let res2 = []

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

if(res[i]===e){

res2.push(res[i])

}

}

count.push(res2)

})

console.log(count)

output:- [ [ 1, 1 ], [ 2, 2 ], [ 3, 3, 3 ], [ 4, 4 ], [ 5 ], [ 6 ] ]

another example with array

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

var resultArr = [];

var count = [];

for(let i in arr){

if(resultArr.includes(arr[i])){

count[resultArr.indexOf(arr[i])]++;

}

else{

resultArr.push(arr[i]);

count.push(1);

}

}

for(let i in resultArr){

console.log(`${resultArr[i]} count is ${count[i]}`);

another example

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

var dup = [...new Set(arr)];

for(let i in dup){

var count = 0;

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

if(dup[i]===arr[j]){

count++;

}

}

console.log(`${dup[i]} count is ${count}`);

}

2.same above program is equal program but I need print array of values print in object.

let res = [1,1,2,2,3,3,3,4,4,5,6] //[[1],[8,8],[1,1]]

let count ={}

res.forEach((e)=>{

if(count[e]){

count[e]+=1

}else{

count[e]=1

}

})

console.log(count)

output:- { '1': 2, '2': 2, '3': 3, '4': 2, '5': 1, '6': 1 }

3. write a program to print from array to get positive and negative and zero values length.

let res = [1,0,-2,4,0,-8,-7] // given inputs

expected output =

3.5000,2.3333,3.5000;

var pos =0,neg=0,zero=0;

let arrlen = res.length

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

if(res[i]>0){

pos++

}else if(res[i]<0){

neg++

}else{

zero++

}

}

// console.log(zero)

let posl = arrlen/pos

console.log((posl.toFixed(4)))

let negl = arrlen/neg

console.log((negl.toFixed(4)))

let zerol = arrlen/zero

console.log((zerol.toFixed(4)))

// console.log(pos)

// console.log(neg)

// console.log(zero)

4.write a program to get sum total given array but remove max and min value from array after print sum total value.

let res = [1,2,5,4,8,9,10]

let sum = 0

let min = Math.min(...res)

let max = Math.max(...res)

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

sum += res[i]

}

console.log((sum-max)+","+(sum-min))

expected output: 29,38

5. Given an array of integers, where all elements but one occur twice, find the unique element.

Example: array=[1,2,3,4,3,2,1]

The unique element is =4.

Build a javascript program

function findUniqueElement(arr) {

let uniqueElement = 0;

for (let num of arr) {

uniqueElement ^= num;

}

return uniqueElement;

}

const array = [1, 2, 3, 4, 3, 2, 1];

const uniqueElement = findUniqueElement(array);

console.log("The unique element is:", uniqueElement);

7.write a program to print take array to print to reverse the array and if vowels occurs only first index vowels should be print uppercase remaining add to array.

let result = ['hello','APPLE']

let vowels = 'AEIOUaeiou'

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

let res = result[i].split('').reverse().join('').toLowerCase()

if(vowels.includes(res[0])){

res = res.replace(res[0],res[0].toUpperCase())

}

result[i]=res;

}

console.log(result)

8.wirte a program to get multiple values give values.

function product(a){

return (b) => {

return a\*b;

}

}

console.log(product(2)(5));