SOLVING PROBLEMS USING ANONYMOUS FUNCTION

1. Print odd numbers in an array ?

var odd = function()

{ var array = [];

for(var i =1;i<250;i++)

{

array.push(i);

if(i%2!==0)

{

console.log(i);

}

}

};

odd();

1. Sum of all numbers in an array ?

var anonymous = function (arr) {

let sum=0;

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

sum+=arr[i];

}

return sum;

};

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

let s=anonymous(arr);

console.log(s);

1. Return all the prime numbers in an array ?

var array = [3,4,5,6,7,8,9,10];

var prime = function(){

var str = "";

for(var i in array){

if(parseInt(array[i])%2!==0)

str = str + " " + array[i];

}

console.log(str);

};

prime(array);

1. Return all the palindromes in an array ?

var palindrome = function(array){

var str = "";

var rev = "";

for(var i in array){

rev = array[i].split("").reverse().join("");

if(rev===array[i]){

str = str + " " + array[i];

}

}

console.log(str);

}

palindrome(["hello", "madam"]);

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

var titleCase = function (string) {

var sentence = string.toLowerCase().split(" ");

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

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

}

console.log(sentence);

return sentence;

}

titleCase("this is sumanraj");

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

var arr=[2,3,4,5,6,7,8];

var arr1=[3,4,5,6,7,8,9];

var result=function(arr,arr1){

var newarray=arr.concat(arr1);

newarray=newarray.sort((a,b)=>a-b);

var median;

//since length will be even

median=(newarray[(newarray.length)/2]+newarray[(newarray.length/2)-1])/2;

console.log(median);

}

result(arr,arr1);

1. Remove duplicates from an array ?

var a=[2,3,3,4,5,5,6,6,7,77,7,8,99,9];

var result=function(a){

a=a.sort((a,b)=>a-b);

var res=[];

for(var i=0;i<a.length-1;i++){

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

res.push(a[i]);

}

res.push(a[a.length-1]);

for(var i in res)

console.log(res[i]);

}

result(a);

1. Rotate an array by k times and return the rotated array?

var a=[2,3,4,5,6,7,8,9];

var k=5;

var result=function(a,k){

var t=[];

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

t[(i+k)%a.length]=a[i];

for(var i in t)

console.log(t[i]);

}

result(a,k);

SOLVING PROBLEMS USING IIFE FUNCTION

1. Print odd numbers in an array ?

var arr=[2,3,4,5,6,7,8,9];

var result=function(arr){

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

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

console.log(arr[i]);

}

}

result(arr);

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

var arr=['this is sumanraj”];

arr=arr.map(function(e){

return e.toLowerCase();

});

(function(arr){

for(var i in arr){

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

console.log(arr[i]);

}

})(arr);

1. Sum of all numbers in an array ?

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

var sum=0;

(function(a){

for(var i in a){

sum+=a[i];

}

console.log(sum);

})(arr);

1. Return all the prime numbers in an array ?

(function(a){

for(var i in a){

var c=0;

for(var j=2;j<=a[i];j++){

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

c++;

}

if(c==1)

console.log(a[i]);

}

})([2,3,4,5,6,7,8,9,11]);

1. Return all the palindromes in an array ?

var arr=['1221','1213','aba','drfg'];

(function(a){

for(var i in a){

var n=a[i].length-1;

var c=0;

for(var j=0;j<=(a[i].length-1)/2;j++){

if(a[i][j]!=a[i][n--])

c=1;

}

if(c==0)

console.log(a[i]);

}

})(arr);

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

var arr=[2,3,4,5,6,7,8];

var arr1=[3,4,5,6,7,8,9];

(function(arr,arr1){

var newarray=arr.concat(arr1);

newarray=newarray.sort((a,b)=>a-b);

var median;

median=(newarray[(newarray.length)/2]+newarray[(newarray.length/2)-1])/2;

console.log(median);

})(arr,arr1);

7. Remove duplicates from an array ?

var a=[2,3,3,4,5,5,6,6,7,77,7,8,99,9];

(function(a){

a=a.sort((a,b)=>a-b);

var res=[];

for(var i=0;i<a.length-1;i++){

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

res.push(a[i]);

}

res.push(a[a.length-1]);

for(var i in res)

console.log(res[i]);

})([2,3,4,5,6,5,6,5,45,3,45,6,7,7,8,1]);

8.Rotate an array by k times and return the rotated array ?

var a=[2,3,4,5,6,7,8,9];

var k=5;

(function(a,k){

var t=[];

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

t[(i+k)%a.length]=a[i];

for(var i in t)

console.log(t[i]);

})(a,k);