Var ar=[1,2,3,4,5,6,7,8,9,10]

Do the below programs in anonymous function & IIFE

* 1. Print odd numbers in an array
  2. Convert all the strings to title caps in a string array
  3. Sum of all numbers in an array
  4. Return all the prime numbers in an array
  5. Return all the palindromes in an array
  6. Return median of two sorted arrays of same size
  7. Remove duplicates from an array
  8. Rotate an array by k times

* 1. Print odd numbers in an array

🡪

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

var odnumber=function( )

{

var final=[]

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

{

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

{

final.push(ar[i])

}

}

return final

}

console.log(odnumber(ar))

* 1. Sum of all numbers in an array

🡪

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

var odnumber=function()

{

var sum =0

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

{

sum+=ar[i]

}

return sum;

}

console.log(odnumber(ar))

* 1. Return all the prime numbers in an array

🡪

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

var odnumber=function( ar)

{

var final=[]

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

{

var count=0

for(var j=0;j<100;j++)

{

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

{

count++

}

}

if(count===2)

{

final.push(ar[i])

}

}

return final;

}

console.log(odnumber(ar))

* 1. Return all the palindromes in an array

🡪

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

🡪

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

var ar1=[1,2,3,4,7,8,9,23,45,50]

var odnumber=function(ar,ar1)

{

var final=0

var final1=0

for(var i=0,j=0;i<ar.length,j<ar1.length;i++,j++)

{

if(ar.length%2===0 && ar1.length%2===0)

{

final=(ar[((ar.length)/2)-1]+ar[(ar.length/2)])/2

final1=(ar1[((ar1.length)/2)-1]+ar1[(ar1.length/2)])/2

}

else

{

final=ar[Math.floor(ar.length/2)]

final1=ar1[Math.floor(ar1.length/2)]

}

}

return (final+" "+final1);

}

console.log(odnumber(ar,ar1))

* 1. Remove duplicates from an array

🡪

var ar=[1,2,1,4,5,6,6,8,9,8]

var odnumber=function(ar)

{

var final=[]

final.push(ar[0])

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

{

var count=0

for(var j=0;j<final.length;j++)

{

if(final[j]===ar[i])

{

count++

}

}

if(count<=0)

{

final.push(ar[i])

}

}

return (final);

}

console.log(odnumber(ar))

* 1. Rotate an array by k times

🡪

Program for right rotation of array

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

var len=3

var kshift=function()

{

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

{

var temp1=a[0]

var temp2=0

for(var j=1;j<=a.length;j++)

{

if(j===a.length)

{

a[0]=temp1

}

else

{

temp2=temp1

temp1=a[j]

a[j]=temp2

}

}

}

return a

}

console.log(...kshift(a))

1. Do the below programs in arrow functions
   1. Print odd numbers in an array
   2. Convert all the strings to title caps in a string array
   3. Sum of all numbers in an array
   4. Return all the prime numbers in an array
   5. Return all the palindromes in an array
2. Print odd numbers in an array

Solution :

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

var b=ar.filter((element)=>element%2!==0);

console.log(b)

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

Solution :

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

var c=a.reduce((a,b)=>a+b)

console.log(c)

D .Return all the prime numbers in an array

Solution:

const newArray = [1,3,2,5,10];

const isPrime = num => {

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

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

}

return num !== 1;

};

const myPrimeArray = newArray.filter(element => isPrime(element));

console.log(myPrimeArray);