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

let arr=[1,22,3,4,5,6,12,8,13,89,46,9,87,7,6,5,]

let arr2=[]

oddOf=function (arr)

{

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

{

if (arr[i]%2>0)

arr2.push(arr[i])

}

return arr2

}

console.log(oddOf(arr))

**op**

[ 1, 3, 5, 13, 89, 9, 87, 7, 5 ]

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

var updated=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(updated('heLlO MITHUN how aRE you'))

**// OR this method**

updated=function(str)

{

if ((str===null)||(str===''))

{

return false

}

else

{

str=str.toString();

return str.replace(/\w\S\*/g,

function(txt)

{

return txt.charAt(0).toUpperCase()+ txt.substr(1).toLowerCase()

})

}

}

console.log(updated('helLO MITHUN how aRE you'))

**op**

Hello Mithun How Are You

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

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

var sum=0

var sumOfArray=function(arr)

{

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

{

sum=arr[i]+sum //sum+=arr[i]

}

return sum

}

console.log(sumOfArray(arr))

**OP**

15

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

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

var arr2=[]

var isPrime=function(arr)

{

if (arr<2)

{

return false

}

else

{

for (var i=2;i<arr;i++)

{

if (arr%i==0)

{

return false

}

}

}

return true

}

arr.forEach(function(ele)

{

if (isPrime(ele)===true)

{

arr2.push(ele)

}

})

console.log(arr2)

**OP**

[ 7, 5, 3, 2 ]

1. **Return all palindrome in an array**

var arr=['mithun','sis','did','nun','yash',12321]

var arr2=[]

var isPalindrome = function (arr)

{

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

{

if ( arr[i] == arr[i].toString().split('').reverse().join('') )

{

arr2.push(arr[i])

}

}

return arr2

}

console.log(`the palindrome of [${arr}] is [${isPalindrome(arr)}]`)

**OP**

the palindrome of [mithun,sis,did,nun,yash,12321] is [sis,did,nun,12321]

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

var arr1=[1,12,5,26,38]

var arr2=[15,13,17,30,5]

var arr3=[]

var m, mid

var Median=function(arr1,arr2,arr3)

{

arr3=arr3.concat(arr1,arr2).sort((a,b)=>a-b)

m=arr3.length/2

var reminder=arr3.length%2

if ( reminder==0)

{

mid=(arr3[m]+arr3[m-1])/2

}

else

{

mid='array size does not match'

}

return mid

}

console.log(Median(arr1,arr2,arr3))

**op**

14

1. **Remove duplicate from an array**

**Using indexOf() function**

var arr=[1,2,3,4,4,4,5,6,6,77,9,9,9]

var arr2=[]

var latest=function(arr)

{

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

for (var ele of arr)

{

if( arr2.indexOf(ele)===-1)

{

arr2.push(ele)

}

}

return arr2

}

console.log(latest(arr))

**op**

[ 1, 2, 3, 4, 5, 6, 9, 77]

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

var arr=[1,2,3,4,5,6,7]

var k=3

var rotate=function (arr,k)

{

for ( var i=0;i<k;i++)

{

arr.unshift(arr.pop())

}

return arr

}

console.log(rotate(arr,k ))

**op**

[ 5, 6, 7, 1, 2, 3, 4 ]

1. <https://medium.com/@reach2arunprakash/guvi-zen-class-javascript-warm-up-programming-problems-15973c74b87f>
2. **Do the below program in an arrow function**
3. **Print odd numbers in an array**

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

var arr2=[]

var oddOf=()=>

{

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

{

if (arr[i]%2>0)

{

arr2.unshift(arr[i])

}

}

return arr2

}

console.log(oddOf(arr))

**op**

[ 9, 7, 5, 3, 1 ]

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

var str='hellO MITHUN hOW aRe YOU'

var stringTo=()=>

{

str=str.toLowerCase().split(' ')

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

{

str[i]=str[i].charAt(0).toUpperCase()+str[i].substring(1) //substr(1) or slice(1)

}

return str.join(' ')

}

console.log(stringTo(str))

**op**

Hello Mithun How Are You

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

var sum=0

var sumOfArray=(arr)=>

{

for (var i in arr)

{

sum+=arr[i]

}

return sum

}

console.log(sumOfArray([1,2,3,4,5,6]))

**op**

21

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

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

var arr2=[]

var isPrime=(arr)=>

{

if (arr<2)

{

return false

}

else

{

for ( var i=2;i<arr;i++)

{

if ( arr%i==0)

{

return false

}

}

}

return true

}

arr.forEach((ele)=>

{

if ( isPrime(ele)===true)

{

arr2.unshift(ele)

}

})

console.log(arr2)

**op**

[ 2, 3, 5, 7 ]

1. **Return all palindrome in an array**

var arr=['mithun','nun','did','lol','null']

var arr2=[]

var palindrome=()=>

{

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

{

if ( arr[i]==arr[i].toString().split('').reverse().join(''))

{

arr2.unshift(arr[i])

}

}

return arr2

}

console.log(palindrome(arr))

**op**

[ 'lol', 'did', 'nun' ]

1. <https://medium.com/@reach2arunprakash/www-guvi-io-zen-d395deec1373>