//map - executes callback for each array

// element and returns new array

let priceUSD = [20,35,13]

let priceINR = priceUSD.map(x => x \*83)

console.log(priceINR)

priceINR = priceUSD.map(convert)

function convert(val){

return val\*83

}

console.log(priceINR)

const input = [ //array of objects

{name:'John',age:15},

{name:'Radha',age:45},

{name:'Kaushik',age:12},

{name:'Anu',age:21},

{name:'Divya',age:26}

]

const ages = input.map( x => x.age)

console.log(ages)

//filter - returns new array by checking

// each value of original arr using

// call back fn

let cost = [35,234,12,34,54,123]

let lessThan100 = cost.filter( x => x<100)

console.log(lessThan100)

//reduce - executes reducer callback

// and returns accumulated result

//arr.reduce(callback[, initialValue])

//reduce(function (accumulator, currentValue, currentIndex, array))

cost = [35,234,12,34,54,123]

let cartTotal = cost.reduce((total,el)=>total+el)

console.log(cartTotal)

arr2d = [

["a", "b", "c"],

["c", "d", "f"],

["d", "f", "g"],

];

//result = {a:1,b:1,c:2,d:2...}

let result = {'a':1,'b':2}

result['c'] = 1

console.log(result['d'])

console.log(arr2d.flat())

let count = arr2d.flat().reduce(

(accumulator,currVal) => {

if(accumulator[currVal])

accumulator[currVal]++

else

accumulator[currVal] = 1

return accumulator

}

,{});

console.log(count)