//Set Object - Collection of values

// - Values are unique

let arr = [1,1,2,3,4,5,5,5,5,10,8]

let mySet1 = new Set(arr)

console.log(arr)

console.log(mySet1)

let mySet2 = new Set()

mySet2.add(4)

mySet2.add(5)

mySet2.add('pqr')

mySet2.add({'a':1,'b':2})

mySet2.add(4)

console.log(mySet2)

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

mySet2.add(obj)

console.log(mySet2)

console.log(mySet2.size)

console.log(mySet2.has(6))

console.log(mySet2.delete(4))

let arr2 = Array.from(mySet2)

console.log(arr2)

console.clear()

//Map

//Map objects are collections of

//key-value pairs.

//A key in the Map may only occur once

//key or value can be object

let map1 = new Map()

map1.set('a',1)

map1.set('b',2)

map1.set('a',3)

console.log(map1)

console.log(map1.size)

console.log(map1.has('c'))

map1.delete('a')

map1.set('d',2)

map1.set('e',3)

for(let i of map1){

console.log(i)

}

for(let [k,v] of map1){

console.log(v)

}

for(let k of map1.keys()){

console.log(k)

}

map1.forEach((v,k) => {

console.log('key',k,'value',v)

})

//2d array to map

let kvArray = [['a',1],['b',1]]

let map2 = new Map(kvArray)

console.log(map2)

//map to 2d array using spread operator

console.log(...map2)