//1.Write code for creating a new sorted array from two sorted arrays in O (n + m) time complexity where n and m are the size of the unsorted arrays.

function sortedArray(a,b)

{

    let result=[];

    let l1=a.length;

    let l2=b.length;

    for(let i=0;i<l1;i++)

    {

    result[i]=a[i];

    }

    for(let j=0;j<(l2);j++)

    {

     result[l1+j]=b[j];

    }

    return result;

}

let a1=[1,2,3,4,5,6,7];

let a2=[10,12,24,45,55];

console.log(sortedArray(a1,a2));

//2. Write code for finding the smallest element in an array.

function smallestElement(a)

{

    let min=a[0];

    for(let i=0;i<a.length;i++)

    {

        if(a[i]<min)

        {

            min=a[i];

        }

    }return min;

}

let arr=[4,6,8,99,2,24,5,7,8,3,45,7,658,74];

console.log(smallestElement(arr));