Java home task

Date:30.06.2025

/*1)Sort the elements in an array using java.

Sample Input:

5, 3, 8, 4, 2

Sample Output:

2 3 4 5 8-- 3 5 8 4 2--3 5 4 8 2-- 3 5 4 2 8 --3 4 5 2 8 -- 3 4 2 5 8 --3 2 4 5 8-- 2 3 4 5 8

*/

```java
import java.util.*;
public class june30ht
{
    public static void main(String[]args)
    {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the size of the array");
        int size=s.nextInt();
        int[] array1=new int[size];
        System.out.println("Enter"+size+"numbers");
        for(int i=0;i<(size);i++)
        {
            array1[i]=s.nextInt();
        }
        System.out.println("The sorted array is:");


        for (int i=0;i<(size-1);i++)
        {
            for(int j=0;j<(size-1)-i;j++)
            {
```

```java
            if (array1[j]>array1[j+1])

            {

               int temp=array1[j];


               array1[j]=array1[j+1];

               array1[j+1]=temp;



            }



        }

        }

        for (int i=0;i<size;i++)

        {

           System.out.println(array1[i]);

        }

     }

}


/*
2)Search an element in the array using java.

Sample Input:

5, 8, 2, 9, 1

Sample Output:

Element found at index: 3*/


import java.util.*;

public class june30ht

{

   public static void main(String[]args)

   {
```

```java
        Scanner s=new Scanner(System.in);

        System.out.println("Enter the number of elements in the array");

        int size=s.nextInt();

        System.out.println("Enter the elements");

        int[]array1=new int[size];

        for (int i=0;i<size;i++)

        {

            array1[i]=s.nextInt();


        }

        System.out.println("Enter the element to be searched");



        int search=s.nextInt();


        for (int i=0;i<size;i++)

        {

            if (array1[i]==search)

            {

                System.out.println("The element is in index:"+i);

                break;

            }

        }


    }
}
```