Aim:

Write a java program to sort the given list of elements using **Bubble Sort**.

Source Code:

q36415/BubbleSort.java

```java
package q36415;
import java.io.*;
import java.util.*;
class BubbleSort {
    public static void main(String args[]) {
        int n,i;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter no of elements: ");
        n=s.nextInt();
        int a[] = new int[n];
        System.out.print("Enter the elements: \n");
        for(i=0;i<n;i++)
            a[i]=s.nextInt();
        BubbleSortDemo Bs = new BubbleSortDemo();
        Bs.BubbleSorting(a,n);
        System.out.print("Sorted elements:\n");
        for(i=0;i<n;i++)
            System.out.print(a[i]+" ");
    }
}
class BubbleSortDemo {
    public static void BubbleSorting(int a[],int n){
        int i=0,j=0,t;
        for(i=0;i<n;i++)
        {
            for(j=i+1;j<n;j++)
            {
                if(a[i]>a[j])
                {
                    t=a[i];
                    a[i]=a[j];
                    a[j]=t;
                }
            }
        }
    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter no of elements: 3
Enter the elements: 5 -1 25

Sorted elements:
-1 5 25

Test Case - 2
User Output
Enter no of elements: 6
Enter the elements: 15 54 87 69 32 151
Sorted elements:
15 32 54 69 87 151