

Aim:

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

Source Code:

q36415/BubbleSort.java

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

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