5.Writing a program in Java implementing the bubble sort algorithm

```
package OnlinePractice4;

import java.util.Scanner;

public class BubbleSort {

    static void bubbleSort(int[] arr) {

        int n = arr.length;

        int temp = 0;

         for(int i=0; i < n; i++){

                 for(int j=1; j < (n-i); j++)

                 {

                    if(arr[j-1] > arr[j]){

                      temp = arr[j-1];

                      arr[j-1] = arr[j];

                      arr[j] = temp;

                  }


                 }

         }


    }

    public static void main(String[] args) {

            Scanner sc = new Scanner(System.in);

            System.out.println("Enter size to array : ");

            int n =sc.nextInt();

            System.out.println("Enter array element : ");

            int arr[] = new int[n];

            for(int i = 0 ; i<arr.length ;++i) {
```

```
                arr[i]=sc.nextInt();
            }
                System.out.println("Array Before Bubble Sort");
                for(int i=0; i < arr.length; i++){
                        System.out.print(arr[i] + " ");
                }
                System.out.println();
                bubbleSort(arr);
                System.out.println("Array After Bubble Sort");
                for(int i=0; i < arr.length; i++){
                        System.out.print(arr[i] + " ");
                }

        }
}
```

output-

```
Enter size to array :
4
Enter array element :
78
90
56
34
Array Before Bubble Sort
78 90 56 34
Array After Bubble Sort
34 56 78 90
```