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

```java
package javafsd4;

public class bubbleSort {
    public static void sort(int[] arr) {
        for(int i=0;i<arr.length-1;i++) {
            for(int j=0;j<arr.length-1-i;j++) {
                if(arr[j]>arr[j+1]) {
                    int temp=arr[j];
                    arr[j]=arr[j+1];
                    arr[j+1]=temp;
                }
            }
        }


    }
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int[] arr= {22,34,13,67,54,23,11};
        System.out.println(".....BUBBLE SORT.....");
        System.out.println("Before sorting:");
        for(int num:arr) {
            System.out.print(num+" ");
        }

        bubbleSort.sort(arr);

        System.out.println();
        System.out.println("After  sorting:");
        for(int num:arr) {
            System.out.print(num+" ");
        }
    }


}
```

OUTPUT

```
<terminated> bubblesort [Java Application] C:\Users\JOTHIKA\.p2\pool\plugins\org.eclipse.justj.openjdk.hots
.....BUBBLE SORT.....
Before sorting:
22 34 13 67 54 23 11
After  sorting:
11 13 22 23 34 54 67
```