

Phase-1 Practice Project: Assisted Practice

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

Source code:

```
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) {
        int arr[]={6,3,-3,8,29,-1,4,67,21,12,};
        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.println(arr[i]+ " ");
        }
    }
}
```

Output:

