

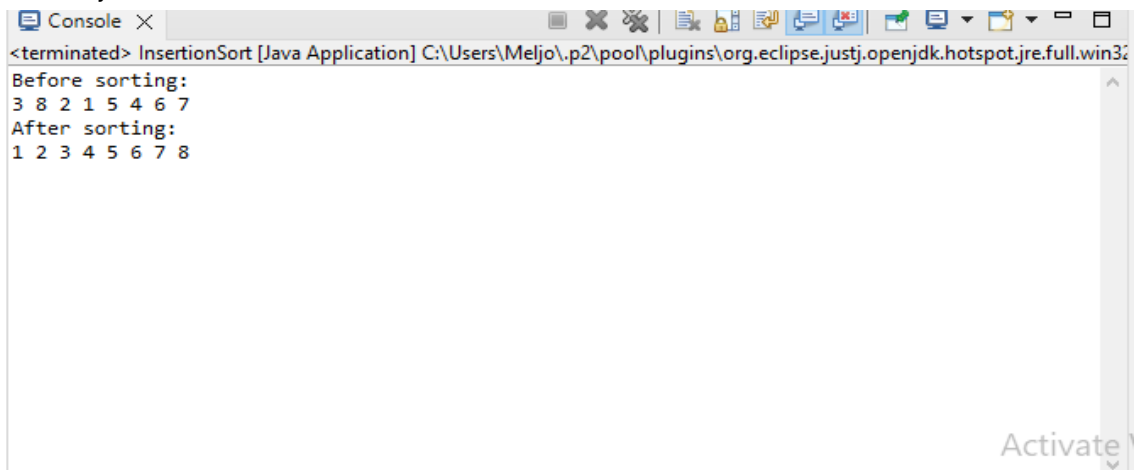
```
package ap_6;
public class InsertionSort {
    public static void main(String[] args) {
        int[] arr = {3, 8, 2, 1, 5, 4, 6, 7};

        System.out.println("Before sorting:");
        for (int i = 0; i < arr.length; i++) {
            System.out.print(arr[i] + " ");
        }

        insertionSort(arr);

        System.out.println("\nAfter sorting:");
        for (int i = 0; i < arr.length; i++) {
            System.out.print(arr[i] + " ");
        }

        public static void insertionSort(int[] arr) {
            int n = arr.length;
            for (int i = 1; i < n; i++) {
                int key = arr[i];
                int j = i - 1;
                while (j >= 0 && arr[j] > key) {
                    arr[j + 1] = arr[j];
                    j--;
                }
                arr[j + 1] = key;
            }
        }
    }
}
```



```
<terminated> InsertionSort [Java Application] C:\Users\Meljo\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32
Before sorting:
3 8 2 1 5 4 6 7
After sorting:
1 2 3 4 5 6 7 8
```