**INSERTION SORT LAB INSTRUCTIONS**

**Lab Goal :** This lab was designed to teach you more about sorting and searching.

**Lab Description :** Take a group of Strings and organize them alphabetically. As you add new items, maintain the sorted order of the list. New items should always be added in a way that maintains the sorted order of the list.

**Files Needed ::**

**InsertionSort.java**

**InsertionSortRunner.java**

**Sample Output :**

adding alice

adding tommy

adding bobby

adding annabell

adding sallysue

***Algorithm Help***

1st - Check to see if the item exists in list – quit method if item exists

2nd- If the item does not exist in the list, find the proper place to insert the new item in order to maintain the sorted order of the list.

3rd - You will use add to insert the new item in the proper location.

adding sallymae

printing the list :: alice annabell bobby sallymae sallysue tommy

removing bobby

printing the list :: alice annabell sallymae sallysue tommy

removing alice

printing the list :: annabell sallymae sallysue tommy

adding fred

adding xylophone

printing the list :: annabell fred sallymae sallysue tommy xylophone

removing tommy

printing the list :: annabell fred sallymae sallysue xylophone

removing fred

removing annabell

removing sallysue

printing the list :: sallymae xylophone

NOTICE

You may *NOT* use Arrays.sort( )

or Collections.sort( ) !