**CS 114 Assignment 9**

**Topic: Priority Queue (4 points)**

**For each task, submit the source code with detail comments electronically (no hardcopy).**

1. **2 points**

**Write the main java program to read all records from inventory.txt to build the MaxHeap Array. We will use the value of the record as the value of priority. Display the Array for each new record during the insertion. After completing building the Maxheap, remove the root then display the Array.**

1. **2 points**

**Repeat the same task as above by using the** java.util.Comparator and java.util.PriorityQueue. Make sure the Priority Queue is Maxheap.

**(Hint: Refer to PriorityQueueDemo.java to set order for priority queue and use Iterator for traversing the tree)**