**CS 114 Assignment 8**

**Topic: Binary (search) Tree (6 points)**

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

1. **2 points**

**Use traversal.pptx as guidance to write a program to read records from inventory.txt and build a binary tree implement Dictionary as**

**BST<Key,E> (use the input record for both key and element) then perform**

1. **Modify BST.java to add printpostOrder, printpreOrder methods.**
2. **Enter a parts number from keyboard and perform binary tree search.**
3. **Display inorder, postorder and preorder of the tree.**
4. **Enter a parts number from keyboard and perform binary tree deletion**
5. **Enter new parts number to the tree.**

1. **2 point**

**Modify BST.java to add printRang method that, given the pointer to the root of BST, a low key value, and high key value, print in sorted order all records whose values fall between the two given keys.**

1. **2 points**

**Modify the StringTree.java to add method to traversal the tree using java.util.Stack instead of recursion. The display the tree with this method.**