Lab Assignment 11

Program:

A. Construct an Expression Tree from postfix expression. Perform recursive and non-recursive In-order, pre-order and post-order traversals.

B. Implement menu-driven binary search tree and perform following operations:

a) Insert

b) Delete

c) Search

d) Display tree (Inorder, preorder, postorder Traversal)

e) Display - Depth of tree

f) Display all parent nodes with their child nodes

g) Display leaf nodes

h) Display tree level wise

Answer the questions:

a. Write an algorithm for all the operations. And state its time complexity.

b. What are the advantages of binary tree and binary search in file handling?

Note:

Upload the zip file of .c and screenshot and pdf of lab writing. Code should be modular and add necessary comments.