



ACADEMY OF TECHNOLOGY
Lab Assignment (Assignment 8)

Paper name: Data Structure and Algorithm

Code: PCC-CS391

Discipline: CSE

Semester: 3rd

Time: 2 Hours

Date: September 21, 2022

1. Write a menu driven program in C or C++ to perform the following operations on Binary Search Tree.
 - (a) *insert* a node.
 - (b) *inorder* traversal.
 - (c) *preorder* traversal.
 - (d) *postorder* traversal.
 - (e) *search* an given *key*.
 - (f) Find the smallest element.
 - (g) Find the largest element.
 - (h) Delete an element.
 - (i) Count the total number of nodes.
 - (j) Count the total number of external nodes.
 - (k) Count the total number of internal nodes.
 - (l) Determine the height of the tree.
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