

Data Structure Laboratory

Assignment Set III

1. Write a menu driven program to do the following
 - a. Create a binary tree of your own choice.
 - b. Perform in-order traversal.
 - c. Perform pre-order traversal.
 - d. Perform post-order traversal
2. Write a program to create a binary tree from its pre-order and in-order traversal.
3. Write a menu driven program to do the following
 - a. Create a binary search tree.
 - b. Search a key in the binary search tree.
 - c. Find in-order predecessor and successor of a node whose key will be an user input.
 - d. Insert a key in the binary search tree.
 - e. Delete a key from binary search tree.
4. Write a program to sort a given set of integers using following algorithms. Your program must display the output for every pass.
 - a. Insertion sort
 - b. Selection sort
 - c. Bubble sort
 - d. Quick sort
 - e. Merge sort
 - f. Heap sort