DSA lab 12
02 Jan 2017

Binary Search Tree Implementation using Node class.

Implement following operations using Binary search tree

1.insertNode //Insert a node into a tree, first find its position in tree and then insert node.
2.deleteNode // delete a node from BST.
3.inorderTraversal // left node> root > rght node
4.preorderTraversal //root>left node > rigjt node
5.postorderTraversal //left node> right node > root
6-allLeaves // display all nodes whose points to no node. Ie left node and right nodes points to null.
7-printPaths // print path from root to leave node
8-minCost // display the minimum cost from root to leave. Assume the path from root to node contain more than one nodes.

9-nodeCount// count total number of nodes in BST
10-height// compute the max height/ max tree level.. ie if nodes are at two level then height is 2.
11-SearchNode// search a node with particular value in BST.
00-DeleteNode // Delete that searched node.

12-minValue// find the minimum value in BST
13-5thMaximum// find fifth largest in BST

14-insertMonths // assume data type for node data is String, then build a BST for months, ie Jan, feb, mar , apr, … dec.