CHAPTER 2

Trees

Syllabus Topics

Introduction to Trees : Terminology, Types of Binary trees.

Non recursive Preorder, in-order and post-order traversal. Creation of binary trees from the traversal of binary trees.

Binary search tree : Traversal, searching, insertion and deletion in binary search tree.

Threaded Binary Tree : Finding in-order successor and predecessor of a node in threaded tree. Insertion and deletion in threaded binary tree.

AVL Tree : Searching and traversing in AVL trees. Tree Rotations: Right Rotation, Left Rotation. Insertion and Deletion in an AVL Tree.

B-tree : Searching, Insertion, Deletion from leaf node and nonleaf node. B+ Tree, Digital Search Tree, Game Tree & Decision Tree Self-learning Topics: Implementation of AVL and B+ Tree.

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