Topics to be covered for

Lecture 28

* General Tree Representation

1. Array representation
2. List of Children
3. Leftmost child Right sibling representation

* Traversal
* Applications
* Binary Tree definition
* Binary Tree terminologies

Lecture 29

* Binary Tree representations

1. Array
2. Linked nodes

* Binary tree types

Complete ,Full

* Binary tree implementation (Linked and array both. Code for linked is attached)

1. Tree Creation
2. Tree Traversals(inorder, preorder, postorder and level order(same as bfs for a graph)

Lecture 30-31

1. Tree creation from given inorder, preorder traversal or inorder, postorder traversal(only problems)
2. Recursive operations on tree(implementation using linked representation)

* Creating a mirror copy of a binary tree
* Determining height of tree
* Finding total number of leaf nodes in a binary tree
* Finding total number of nodes in a binary tree
* Finding width of a binary tree(number of nodes on each level)(homework)
* Function to clear a tree (homework)