

TREE:

Terminologies:

ROOT

NODE

LEAF

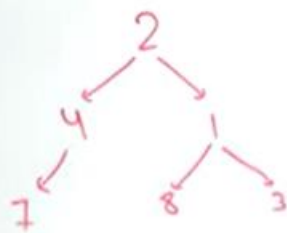
EDGE

ARANARY TREE : every parent can have multiple children

BINARY TREE:

- every parent can have at-most 2 children.
- Max number of nodes at level i : 2^i
- Max number of nodes in a tree: $2^h - 1$
- Level starts from 0 and height from 1. Eg root node has level 0 and height 1.





Inorder

LNR

→ 7 4 2 8 1 3

Preorder

NLR

→ 2 4 7 1 8 3

Postorder

LRN

→ 7 4 8 3 1 2