

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.

