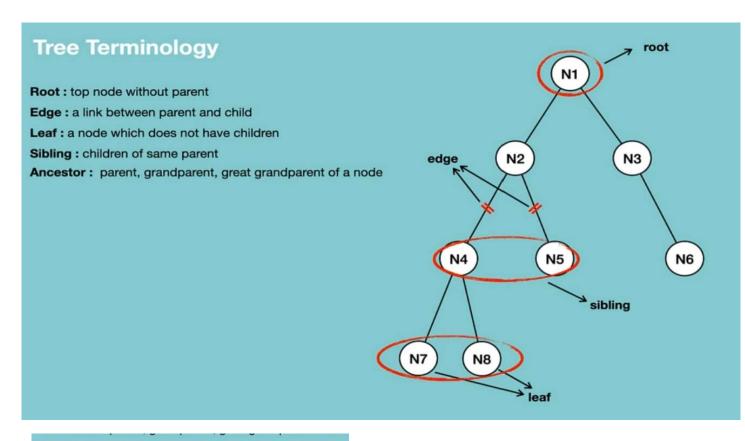


Properties:

- Represent hierarchical data
- Each node has two components: data and a link to its sub category
- Base category and sub categories under it

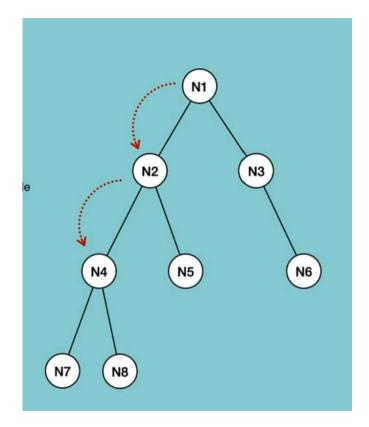
Why a Tree?

- -Quicker and Easier access to the data
- -Store hierarchical data, like folder structure, organization structure, XML/HTML data.
- -There are many different types of data structures which performs better in various situations
 - Binary Search Tree, AVL, Red Black Tree, Trie



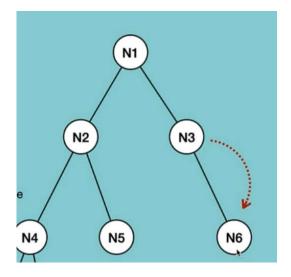
Depth of node: a length of the path from root to node

EX: DEPTH OF N4 = 2

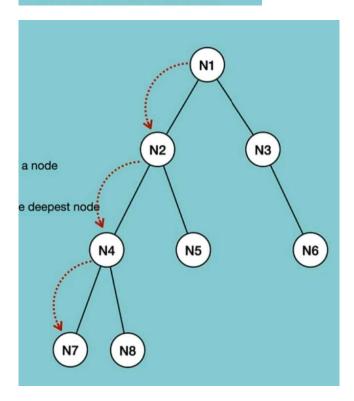


Height of node: a length of the path from the node to the deepest node

Heigh of N3 = 1



Height of tree: height of root node



IN THIS CASE FROM ROOT TO DEEPEST NODE (N7), HEIGHT = 3