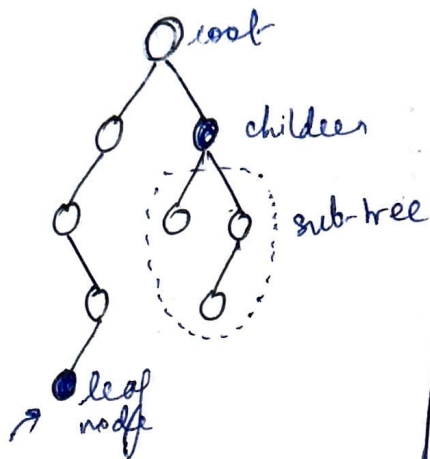# L1 : Introduction to Trees
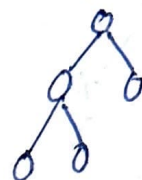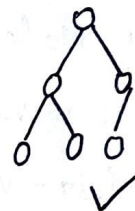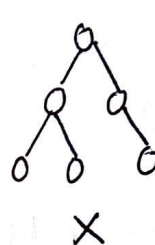

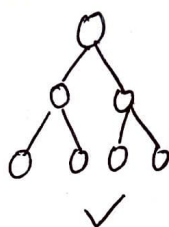
for this all above nodes are ancestors

(•) Full Binary Tree → either has 2 or 0 children

(•) Complete BT

(•) Perfect BT

(•) Balanced BT

(•) Degenrate Tree

PERFECT BT
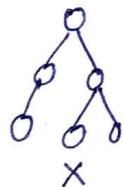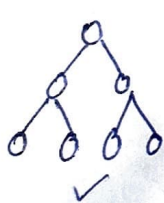
1) all leaf nodes at same level &

2) all nodes have 2 children.

COMPLETE BT

1) all levels are completely filled except last level.

2) the last level has all nodes on left as possible.

BALANCED BT

height of tree at max $\log_2 (N)$ ← nodes

eg $n = 8$ $\log_2 8 = 3$ → height can be max 3.

DEGENERATE TREE

Each parent node has only one child associated with it.

$n = 5$