ADS-Lab MANU.N.Y 1BM1 805053 Void FBTree :: insert (const ind Endada) ? Node opto = new node (data); noot = BST Insert (root, ptx); fix violation (soot, pts); Node & BST Insert (Node & root, Node + pts) & y (soot==NULL) setnen pto, if (ptx >data (soot) data) soot -> left = BST Insert (soot -> left, pts)
soot -> left -> parent = root; else if (p+8 -> data > soot -> data) {

soot -> eight = B STInsert (root -> right, p4)

soot -> right -> parent = soot;

4 altun voot; care A: Parent of pts is left did of grandparent of pt Care 1: Unch node of pts is also sed advanching - colone change come 2: pto is sight child of its prients left - sotation required Lare 3: pt & is left child of its parent sight - rotation is required Case 6. parent of ptx is origin child of grand
parent of ptx care 1: Uncle of pto is also sed - votone change core 2: pto is eight chille of its parents left