2) BST Traversal

a.

node.data = veft.data + (right.data \*2)

Leaf nodes that name no children 15, 37, 65, 87, 93

36 + Right = 37 36+0 +(0037) = 36+74 = 110

46 + Luft = 36, Right = MUI 46 + 110 +0 = 156

59 +0 + (2 ° US) = 59 + 130 = 189

54 + Left = 46, Right = 59 54 + 156 + (21/189) = 54+150+ 370= 588

21+ Left = 15, Right= 54 32+ + 15 + (2.500) = 21+15+1176 = 1212

80 > Right = 87 80+0+(2.87) = 80 +174=254

 $97 \Rightarrow \text{Left} = 93$ 97 + 93 + 0 = 190

92 + 254 + (20190) = 92 +254 +360 = 726

60 + Left = 21, Right = 92 00+1212+(20726) = 60+1212+1452 = 2724

Preorder Traversal: Root, Left, Right

93

Inorder Transversal : Left, Root, Right

15, 1212, 110, 37, 156, 588, 189, 65, 2724, 254, 87, 726, 93, 190

No, it is not a BST the new node volves violate the BST property when the reft child is greater than the parent in some places.

Co NO, It is not an AVL because It is not a BST, which needs the structure and height of the tree to be balanced.