14/10/20 ADS-Lab-4

Abhishikat Soni 1BM18SOO4 5A

Breudocade / Algorithm

- 1) Inset new node wring recursion, as while backtracking we will be able to check whether they are balanced or not
- 1 Mare height, h=1
- 1) When new node added, parent node height get incremented by 1.
- 9 As menhioned in Step 1, every ancestor height will get updated while backbrocking to the root.
- (B) Check balance factor (height of (left subber snight subber)
- (6) If balance factor (b) = 1 => balanced
- (7) b/>1 => left height more than right => Next to motate
- B I cour node < new node > Then it is left-left case otherwise get right case.
- (Right-Right Case or Right-left case)
 - (10) J) new-node < cur-node => Right-Right Core Ahenrise Right-left core.

For deletion

- O & We will do roomal BST deletion.
 - 1) Now, curr-node must be one of the ancestors of deleted node-Update Reight of curr-node.
 - 3) Calculate balance factor (b) of cum-nodo
 - (3) Rest Step same as Step 5 to 10.