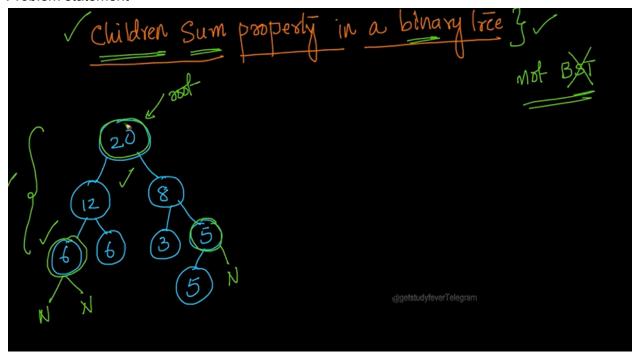
Children Sum Property in binary Tree

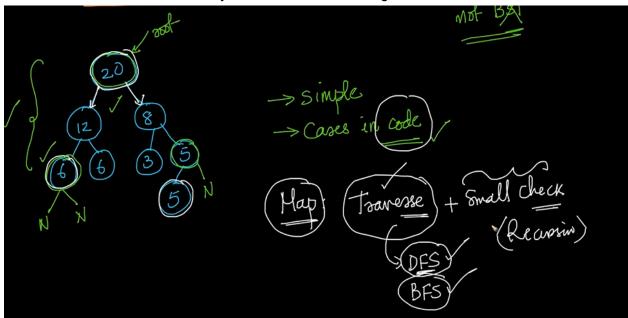
1. Problem statement



given a binary tree..return True if sum of child nodes equals too parent node

Approach

- 1. Here we have to handle all the edge cases perfectly
- 2. We'll go ahead with simple recursion.
- 3. Here we have to traverse the array and add small check login of sum



- 4. And we'll approach this via DFS with recursion
- 5. Pseudocode

7.

here for any recursion problem ..we have write a base code...see pic

6. And we have used I,r to store the left and right child value...and by default we gave them as I,r = 0,0 ..so incase if there's a null value...then it will be 0

Now here given a node...it must satisfy the node = I+r...and its we call our function recursively on its left and right child...if it satisfies..then we return True

Python code:

```
class node:
    def __init__(self,info):
         self.info = info
self.left = None
self.right = None
def checkChildSum(root):
     ldata = rdata = 0
     if(root==None or (root.left == None and root.right == None)):
          if root.left:
              ldata = root.left.info
          if root.right:
    rdata = root.right.info
          if(root.info == ldata+rdata and checkChildSum(root.left) and checkChildSum(root.right)):
if __name__ == '__main__':
    root = node(\overline{15})
    root = node(15)
root.left = node(10)
root.right = node(5)
root.left.left = node(5)
root.left.right = node(5)
root.right.left = node(2)
root.right.right = node(3)
     if(checkChildSum(root) is True):
       print("children sum property")
     print("not satisfy children sum property")
```

1.