```
/**
* Definition for a binary tree node.
* struct TreeNode {
    int val;
* struct TreeNode *left;
   struct TreeNode *right;
* };
*/
struct TreeNode* mergeTrees(struct TreeNode* root1, struct TreeNode* root2) {
   if(root1 == NULL)
    {
      return root2;
    }
    if(root2 == NULL)
      return root1;
    }
    root1->val += root2->val;
    root1->left = mergeTrees(root1->left,root2->left);
    root1->right = mergeTrees(root1->right,root2->right);
    return root1;
}
```

