C++ Assignments | Binary Trees | Week 17

1 . Find the product of all values in Binary Tree

Sol:

```
int product (node* root){
if(root==NULL)return 1;
 int ans= root->val * sum(root->left) * sum(root->right);
 return ans;
}
```

2 . Find the min value in Binary Tree

Sol:

```
 int min(node*root){
 if(root==NULL)return INT8_MAX;
int lmin=min(root->left);
int rmin=min(root->right);
return min(root->val,min(lmin,rmin));
}
```

3 . Balanced Binary Tree [Leetcode 110]

Sol:

```
class Solution {
public:
int levels(TreeNode*root){
     if(root==NULL)return 0;
    return (1+max(levels(root->left),levels(root->right)));
}
    bool isBalanced(TreeNode* root) {
        if(root==NULL)return true;
        int ld=levels(root->left);
        int rd=levels(root->right);
        if(abs(ld-rd)>1)return false;
  return  isBalanced(root->left)&& isBalanced(root->right);
    }
};
```

4 . Symmetric Tree [LeetCode 101]

Sol: