## **Experiment 5**

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Subject Name: AP LAB 2 Subject Code:22CSP-351

1. Aim: Trees

a. Maximum Depth of Binary Tree

b. Symmetric Tree

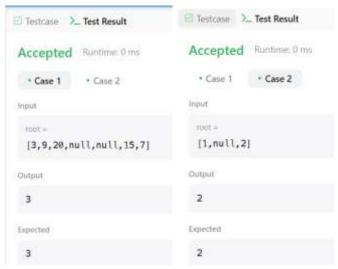
## 2. Code:

```
a. class Solution {
  public int maxDepth(TreeNode root) {
    if(root == null)
      return 0;
    int left = maxDepth(root.left);
    int right = maxDepth(root.right);
    return Math.max(left,right)+1;
  }
}
b. class Solution {
  public boolean isSymmetric(TreeNode root) {
     if (root == null) {
       return true;
     return isMirror(root.left, root.right);
  private boolean isMirror(TreeNode node1, TreeNode node2) {
    if (node1 == null &\& node2 == null) {
       return true;
    if (node1 == null || node2 == null) {
       return false;
     }
```

return node1.val == node2.val && isMirror(node1.left, node2.right) && isMirror(node1.right,
node2.left);
}

## 3. Output:

a.



b.

