EXPERIMENT -2.1

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BRANCH- BE- CSE SECTION- DM 605 B

SEMESTER- 6th DATE-04 /04/2023

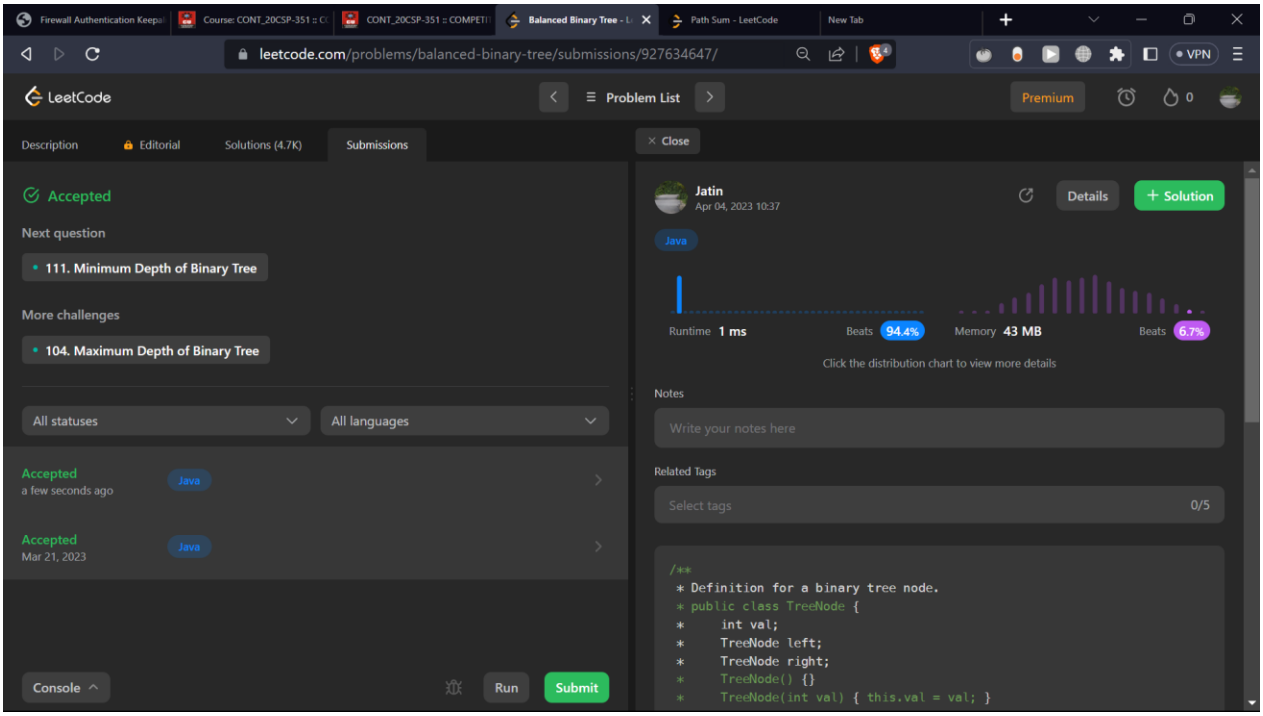
SUBJECT- CC Lab- 2 SUBJECT CODE- 20CSP-351

Q1. Balanced Binary Tree

CODE

```
class Solution {
    public boolean isBalanced(TreeNode root) {

        return maxDepth(root) != -1;
    }

    int maxDepth(TreeNode root){
        if(root == null)
            return 0;

        int lh = maxDepth(root.left);
        if(lh == -1)
            return -1;

        int rh = maxDepth(root.right);
        if(rh == -1)
            return -1;

        if(Math.abs(lh - rh) > 1)
            return -1;

        return 1+Math.max(lh, rh);
    }
}
```

Output:



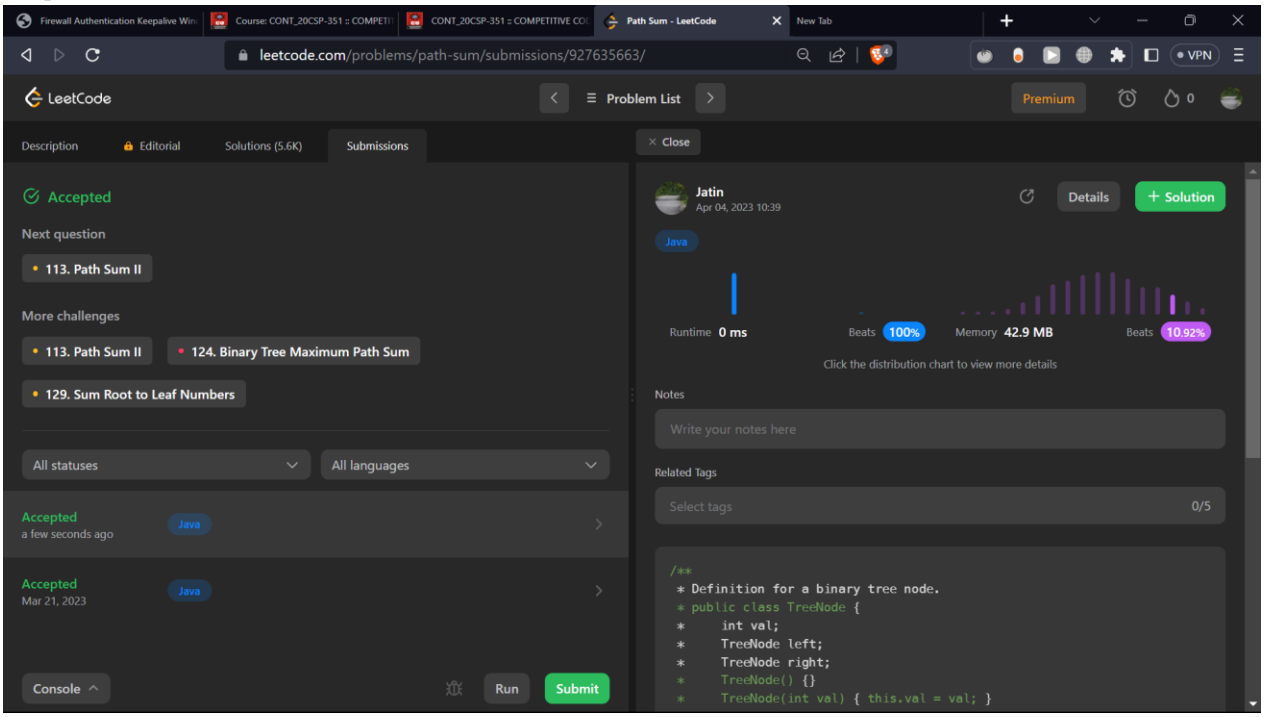
Q2 Path Sum

Code :

```
class Solution {
    public boolean hasPathSum(TreeNode root, int targetSum) {
        if(root==null){
            return false;
        }
        if(root.left==null && root.right==null && root.val==targetSum){
            return true;
        }
        if(hasPathSum(root.left,targetSum-
root.val)||hasPathSum(root.right,targetSum-root.val)){
            return true;
        }else{
            return false;
```

```
            }
        }
}
```

Output :


leetcode.com/problems/path-sum/submissions/927635663/
LeetCode
Problem List
Premium
Description
Editorial
Solutions (5.6K)
Submissions
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Accepted
Next question
113. Path Sum II
More challenges
113. Path Sum II
124. Binary Tree Maximum Path Sum
129. Sum Root to Leaf Numbers
All statuses
All languages
Accepted
a few seconds ago
Java
Accepted
Mar 21, 2023
Java
Console
Run
Submit
Jatin
Apr 04, 2023 10:39
Details
+ Solution
Java
Runtime 0 ms
Beats 100%
Memory 42.9 MB
Beats 10.92%
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Notes
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/**
* Definition for a binary tree node.
* public class TreeNode {
*   int val;
*   TreeNode left;
*   TreeNode right;
*   TreeNode() {}
*   TreeNode(int val) { this.val = val; }