Data structures

Practical lab 12 – Trees

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If a programmer codes just for fun he has all his skill.
If he codes for score his hand tremble and his breath is uneasy

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Submit your project via moodle at the End of the session

Create a new project in NeatBeans and name it PraticalLab12.

Exercise 1:create “Node” class as below

```
class Node{
        Object data;
        Node left;
        Node right;
        public Node(Object data){
                this.data = data;
                left = null;
                right = null;
        }
}
```

Exercise 2: create “BinarySearchTree” class as below and implement the methods below

```
class BinarySearchTree{
        Node root;
        public BinarySearchTree(Node root){
                this.root = root;
        }
}
```

Methods:
Insert a new node
Find a node
IsLeaf
View the tree
Delete a node (optional)

Exercise 3: given an array of integer, create a binary search tree object to store the elements in the given array.

Example:
myArray: 40, 30, 55, 35, 32, 50
myTree: