## **LAB SHEET 6**

Aim: To understand the concepts of Tree data structure and its traversals.

1. Implement a program for different tree traversals.

```
package traversals;

class Node {
  int item;

Node left, right;

public Node(int key) {
  item = key;

left = right = null;
  }
}
class Tree {
```

```
Node root;
Tree() {
root = null;
void inOrder(Node node) {
if (node == null)
inOrder(node.left);
// traverse the root node
System.out.print(node.item + "->");
// traverse the right child
inOrder(node.right);
public static void main(String[] args) {
// create an object of Tree
Tree tree = new Tree();
// create nodes of tree
tree.root = new Node(1);
tree.root.left = new Node(12);
tree.root.right = new Node(9);
tree.root.left.left = new Node(5);
tree.root.left.right = new Node(6);
```

```
System.out.println("In Order traversal");
tree.inOrder(tree.root);
}
```