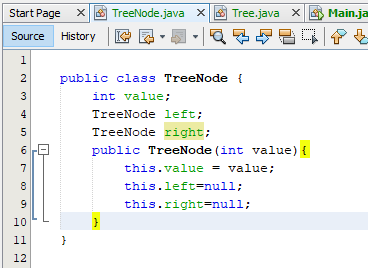


**Question:**

Implement the Inorder Traversal of the Tree….?

**Answer:**

TreeNode.java

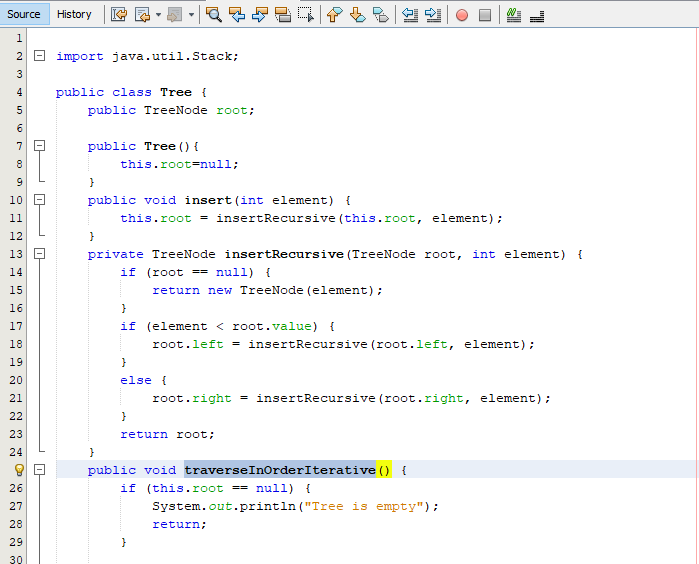


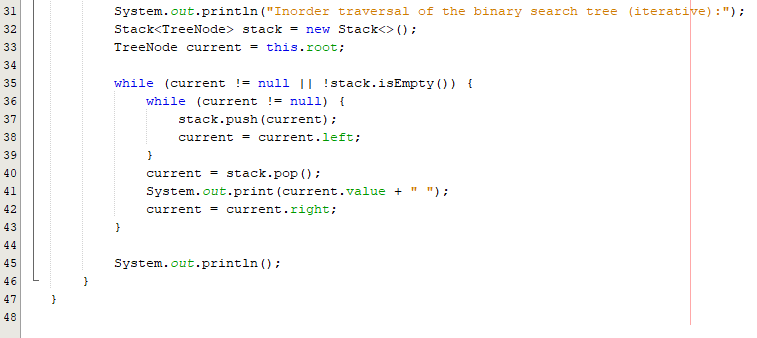
Main.java

A screenshot of a computer program

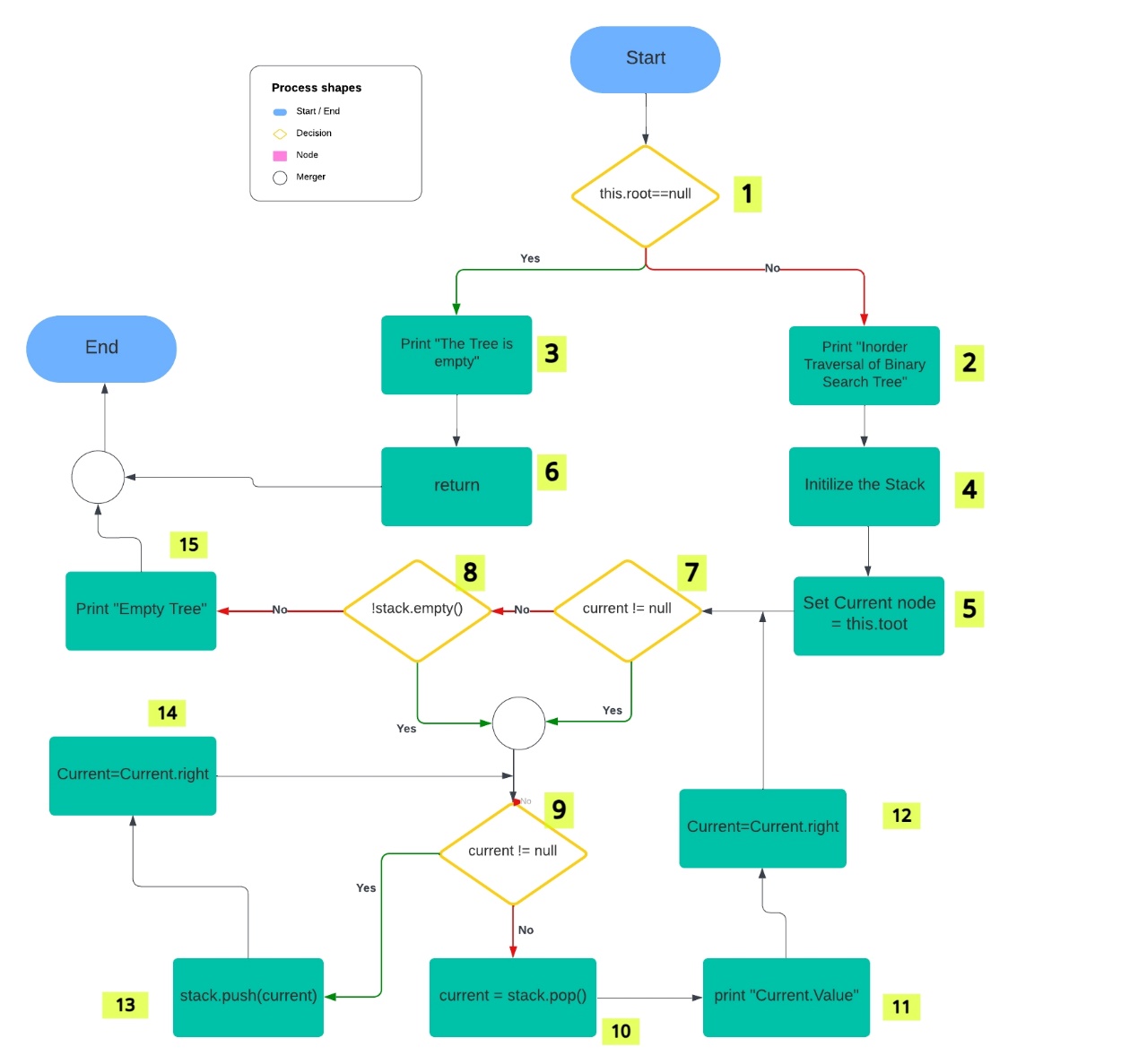
Description automatically generated

Tree.java:





Control Flow Graph:



**Paths:**

Path 1 🡪 1, 3, 6.

Path 2 🡪 1,2,4,5,7,9,13,14,9,10,11,12,7,8,15

**Input Data Selection:**

|  |  |
| --- | --- |
| Paths | Input Data |
| Path 1 | Tree = [] & root = null |
| Path 2 | Tree = [1] & root = node (1) |

**Test Cases:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | Description | Input Data | Expected Output | Actual Output | Status |
| TC\_001 | The root of the tree is “null” (i.e the tree is empty) | Tree= []  Root = null | Display Msg: “Tree is Empty” | Display Msg: “Tree is empty” | Pass |
| TC\_002 | The tree has some elements in it. Now when this method will be called the elements will be printed. | Tree= [1]  Root = node (1) | Display Msg: “Inorder traversal of the binary search tree (iterative):”  and all element of Tree: 1 . | Display Msg: “Inorder traversal of the binary search tree (iterative):”  and all the elements of the Tree: 1. | Pass |