

JAVA PROJECT

Inorder BST Traversal

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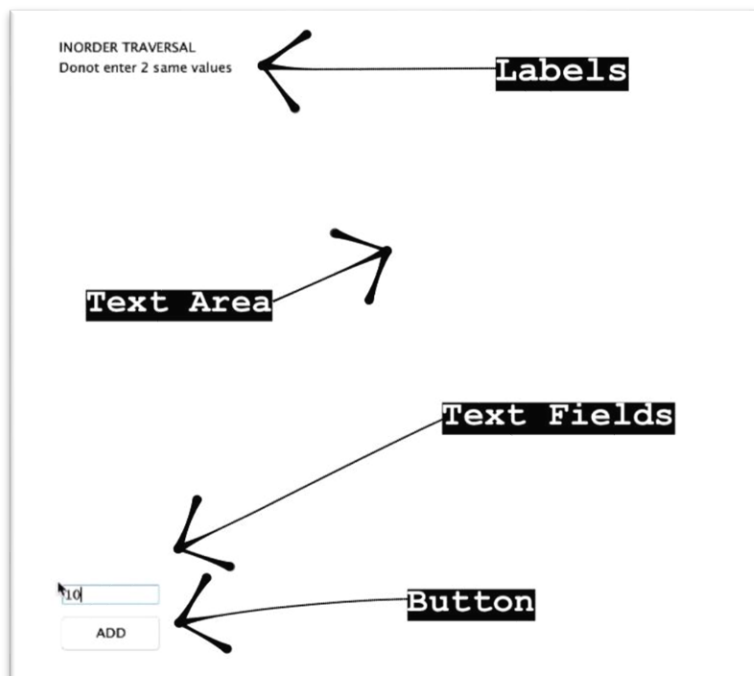
ABOUT THE PROJECT:

This is a mini project wherein we have tried to create a GUI for In-order Binary Search Tree Traversal. We have mainly used Swing API.

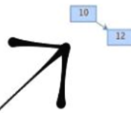
OUR GUI:

This project is only for getting the in-order tree traversal!

1. The GUI we made will display a frame with a text field, a button, a few text labels and a text area.
2. You will have to enter the numbers in the text field.
3. When you press the "ADD" button on the bottom left corner of the screen, you will see that the element is added in the BST.
4. The in-order tree traversal will be printed below the "ADD" button and will keep on updating as you add elements in the tree.



INORDER TRAVERSAL
Donot enter 2 same values

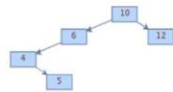


Tree formation

12
ADD
10 12

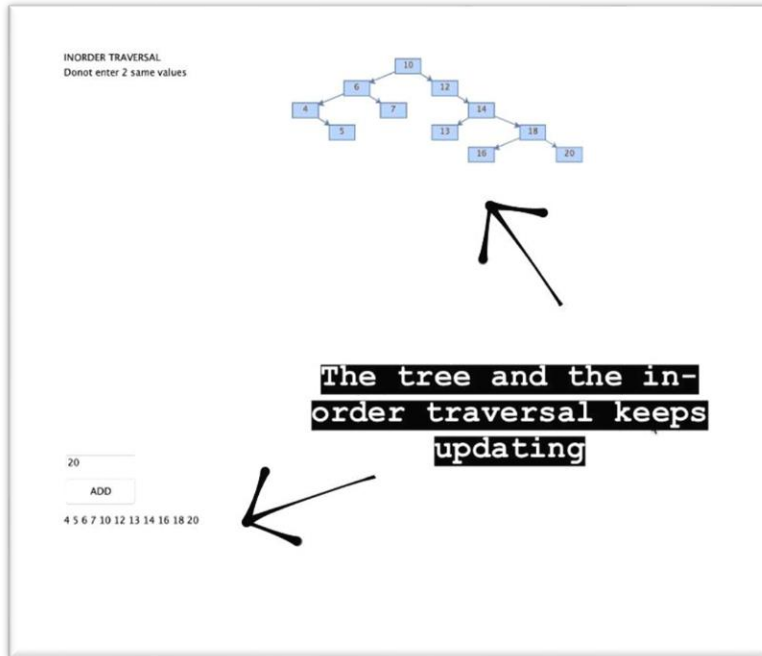
in-order tree traversal

INORDER TRAVERSAL
Donot enter 2 same values



Inserting a new node

7
ADD
4 5 6 10 12



CLASSES:

1. *class Node*: It has been made to make a new Node every time an element is inserted. The left and right children of the class are set to NULL by default.
2. *class BinarySearchTree*: It contains methods for the insertion of nodes into the BST and the in-order recursive function.
3. *class BST_Traversal*: This is the main class of our program. It contains the insertion of the "ADD" button, TextField, TextArea, and Labels.