Binary Trees Lab

1. Download Binary Trees Lab instructions from the portal.
2. Create a new Netbeans project.
3. Add the two Java classes to the project.
4. Modify the insert method so that it displays the nodes visited before insertion of a node.
5. Create the following tree. You will need to create a separate class with a main method.
6. Do the following traversals while printing out the contents of the nodes:
   1. Preorder
   2. Postorder
   3. Inorder
7. Implement the methods we discussed in class for searching a value, finding the maximum and minimum within the provided class. The maximum and minimum value should then be printed from the test class. Success or failure of the search method should be indicated from the test class.
8. Implement iterative preorder, postorder and inorder traversal within the provided class. Test them and print out the tree contents
9. Explain the working of recursive method of searching a value in a binary tree. Illustrate using the tree created in this lab. Write down the method calls and their return values. Look at the videos shared on the portal to get a hint of what to write. Assume searching of the value 50.
10. Explain the working of recursive method for deleting a node in a binary tree. Illustrate using the tree created in this lab. Write down the method calls and their return values. Look at the videos shared on the portal to get a hint of what to write. Assume deleting the node of the value 34.