

# Hands-on Activity

## HTML Tree

### Objective:

At the end of the exercise, the students should be able to:

- Use Java methods to create a tree and manipulate its nodes.

### Software Requirements:

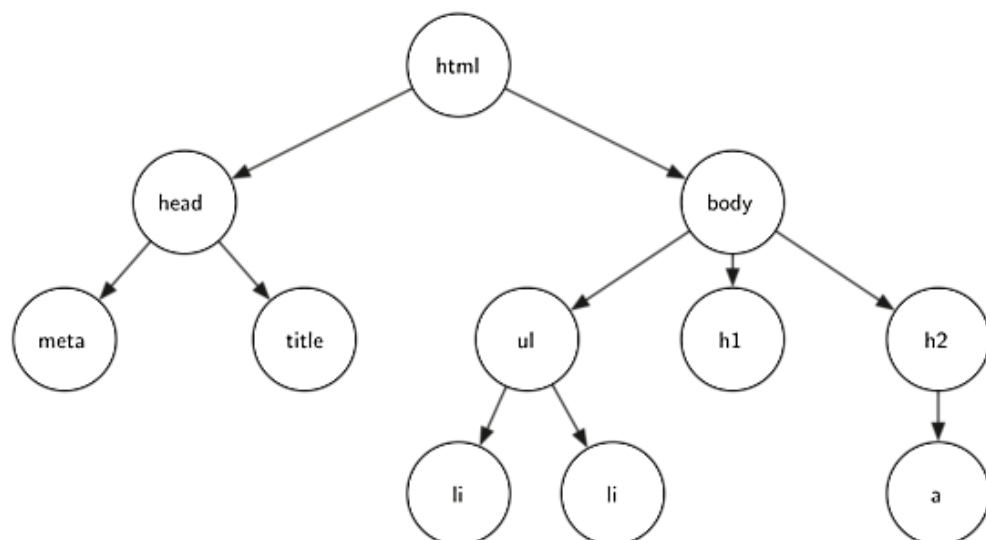
- NetBeans IDE
- Java Development Kit (JDK) 8

### Procedure:

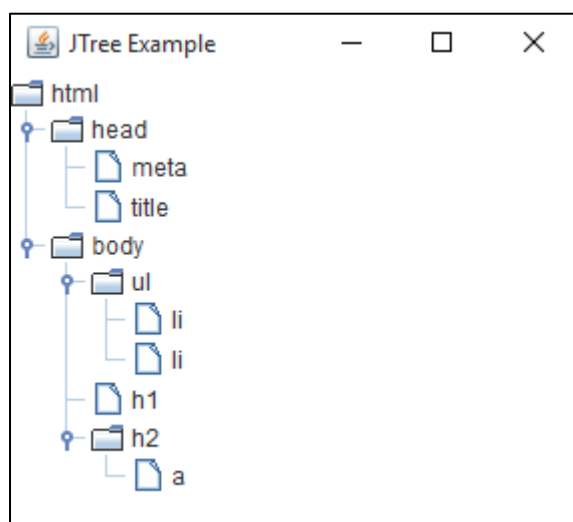
1. Create a folder named *LastName\_FirstName* in your local drive. (ex. Reyes\_Mark)
2. Using NetBeans, create a Java project named **HtmlTree**. Set the project location to your own folder.

### Part 1 (Week 8)

3. Create and display a **JTree** based on the given tree figure. Refer to **06 Handout 1** for sample codes.



### Expected Output:



**Part 2 (Week 9)**

4. Using Java methods and `println()`, enumerate the following:
  - 4.1. Root node
  - 4.2. Parent nodes
  - 4.3. Siblings
  - 4.4. One-level subtrees
  - 4.5. Nodes per level
  - 4.6. Depth
  - 4.7. Degree of each one-level subtree
  - 4.8. List of nodes based on breadth-first, preorder, and postorder