JAVA Programming 과제 - TreeNode 구현

202144020 한소희

1. 소스 코드

```
9
   import javax.swing.tree.*;
10
       import java.util.*;
11
       public class TreeNode_MainFrame extends javax.swing.JFrame {
12
13
           // Setting Member Variable
14
           DefaultTreeModel dftTreeModel = null;
15
           DefaultTreeSelectionModel dftTreeSelectionModel = new DefaultTreeSelectionModel();
16
           DefaultMutableTreeNode rootNode= new DefaultMutableTreeNode("강의 자료");
17
18
           DefaultMutableTreeNode comNode = new DefaultMutableTreeNode("컴퓨터 언어");
19
20
   public TreeNode MainFrame() {
               initComponents();
21
22
23
               // Selection Mode = SINGLE_SELECTION_MODE Setting
24
               dftTreeSelectionModel.setSelectionMode(1);
25
               // Create 컴퓨터 언어 node의 childNode
26
               Vector<DefaultMutableTreeNode> myVC = new Vector<>();
28
               String [] objFolder = {"Java", "C#", "JSP"};
29
30
               for (int idx = 0; idx < objFolder.length; idx++) {</pre>
               // Create node object to add Vector element
31
32
               myVC.add(new DefaultMutableTreeNode(objFolder[idx]));
33
               comNode.add(myVC.get(idx));
34
35
               // Add comNode as child node of rootNode
36
37
               rootNode.add(comNode);
38
               //Setting rootNode as DefaultTreeModel
39
               dftTreeModel = new DefaultTreeModel(rootNode);
40
41
42
               // Setting dftTreeModel as TreeModel of jTree1
               jTree1.setModel(dftTreeModel);
43
44
               jTree1.setEditable(true);
45
               jScrollPane1.getViewport().add(jTree1, null);
46
            private void jTree1TreeExpanded(javax.swing.event.TreeExpansionEvent evt) {
    134
                lblPath.setText("Path: " + evt.getPath() + "\n");
135
136
137
            private void jTree1TreeCollapsed(javax.swing.event.TreeExpansionEvent evt) {
138
    巨
                lblPath.setText("Path: " + evt.getPath() + "\n");
139
140
141
    private void jTree1ValueChanged(javax.swing.event.TreeSelectionEvent evt) {
143
                DefaultMutableTreeNode node;
144
                node = (DefaultMutableTreeNode)jTree1.getLastSelectedPathComponent();
145
                if (node == null) {
146
                    return:
147
148
                lblPath.setText("Path: " + node.getUserObject() + "선택! \n");
149
150
151
```

```
private void btnInsertActionPerformed(java.awt.event.ActionEvent evt) {
     int index = 0; // Save the index of the "new folder" to be added
    DefaultMutableTreeNode select_Node;
     select_Node = (DefaultMutableTreeNode)jTree1.getLastSelectedPathComponent();
    DefaultMutableTreeNode newFolder = new DefaultMutableTreeNode("새 폴더");
     index = select_Node.getChildCount();
    dftTreeModel.insertNodeInto(newFolder, select_Node, index);
     jTree1.setModel(dftTreeModel);
     jTree1.setSelectionModel(dftTreeSelectionModel);
    jScrollPane1.getViewport().add(jTree1, null);
}
private void btnDeleteActionPerformed(java.awt.event.ActionEvent evt) {
    DefaultMutableTreeNode select_Node;
     select_Node = (DefaultMutableTreeNode)jTree1.getLastSelectedPathComponent();
     dftTreeModel.removeNodeFromParent(select_Node);
    jTree1.setModel(dftTreeModel);
    jTree1.setSelectionModel(dftTreeSelectionModel);
     jScrollPane1.getViewport().add(jTree1, null);
```

2. 실행 결과

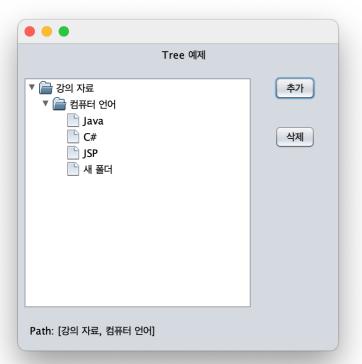




(2) 컴퓨터 언어 폴더 선택



(3) 추가 버튼 클릭



(4) C# 폴더 선택 후 삭제 버튼 클릭

