

1. A sample of Tab pane



```

1. import java.awt.*;
1. import javax.swing.*;
2.
3. class TabbedPaneDemo extends JFrame
4. {
5.     private JTabbedPane jtpPane;
6.     private JPanel pnlPage1;
7.     private JPanel pnlPage2;
8.     private JPanel pnlPage3;
9.
10.    public TabbedPaneDemo()
11.    {
12.        setTitle("Tabbed Pane Application");
13.        setSize(300, 200);
14.        setBackground(Color.blue);
15.
16.        JPanel pnlMain = new JPanel();
17.        pnlMain.setLayout(new BorderLayout());
18.
19.        createPage1();
20.        createPage2();
21.        createPage3();
22.
23.        jtpPane = new JTabbedPane();
24.        jtpPane.addTab("First Page ", pnlPage1);
25.        jtpPane.addTab("Second Page ", pnlPage2);
26.        jtpPane.addTab("Third Page ", pnlPage3);
27.        pnlMain.add(jtpPane, BorderLayout.CENTER);
28.
29.        getContentPane().add(pnlMain);
30.
31.        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
32.        setVisible(true);
33.    }
34.
35.    public void createPage1()
36.    {
37.        pnlPage1 = new JPanel();
38.        pnlPage1.setLayout(null);
39.

```

```

40.         JLabel lblUsername = new JLabel("Username :");
41.         lblUsername.setBounds(10, 15, 150, 20);
42.         pnlPage1.add(lblUsername);
43.
44.         JTextField txtUsername = new JTextField(10);
45.         txtUsername.setBounds(10, 35, 150, 20);
46.         pnlPage1.add(txtUsername);
47.
48.         JLabel lblPassword = new JLabel("Password :");
49.         lblPassword.setBounds(10, 60, 150, 20);
50.         pnlPage1.add(lblPassword);
51.
52.         JPasswordField txtPassword = new JPasswordField(10);
53.         txtPassword.setBounds(10, 80, 150, 20);
54.         pnlPage1.add(txtPassword);
55.     }
56.
57.     public void createPage2()
58.     {
59.         pnlPage2 = new JPanel();
60.         pnlPage2.setLayout(new BorderLayout());
61.
62.         pnlPage2.add(new JButton("North"), BorderLayout.PAGE_START);
63.         pnlPage2.add(new JButton("South"), BorderLayout.PAGE_END);
64.         pnlPage2.add(new JButton("East"), BorderLayout.LINE_END);
65.         pnlPage2.add(new JButton("West"), BorderLayout.LINE_START);
66.         pnlPage2.add(new JButton("Center"), BorderLayout.CENTER);
67.     }
68.
69.     public void createPage3()
70.     {
71.         pnlPage3 = new JPanel();
72.         pnlPage3.setLayout(new GridLayout(3, 2));
73.
74.         pnlPage3.add(new JLabel("Name :"));
75.         pnlPage3.add(new TextArea());
76.         pnlPage3.add(new JLabel("Address :"));
77.         pnlPage3.add(new TextArea());
78.         pnlPage3.add(new JLabel("Birth Date :"));
79.         pnlPage3.add(new TextArea());
80.     }
81.
82.     public static void main(String args[])
83.     {
84.         TabbedPaneDemo objTabbedPaneDemo = new TabbedPaneDemo();
85.     }
86. }

```

2. A sample of JTable



```
import java.awt.BorderLayout;
import javax.swing.JFrame;
import javax.swing.JTable;
public class ScrollTableSample {
    public static void main(String args[]) {
        Object rows[][] = { { "one", "ichi - \u4E00" },
                            { "two", "ni - \u4E8C" }, { "three", "san - \u4E09" },
                            { "four", "shi - \u56DB" }, { "five", "go - \u4E94" },
                            { "six", "roku - \u516D" }, { "seven", "shichi - \u4E03" },
                            { "eight", "hachi - \u516B" }, { "nine", "kyu - \u4E5D" },
                            { "ten", "ju - \u5341" } };
        Object headers[] = { "English", "Japanese" };
        JFrame frame = new JFrame("Scrollless Table");
        JTable table = new JTable(rows, headers);
        frame.getContentPane().add(table, BorderLayout.CENTER);
        frame.setSize(300, 150);
        frame.setVisible(true);
    }
}
```

3. A sample of JTree

```
import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.Container;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

import javax.swing.JApplet;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTree;
import javax.swing.tree.DefaultMutableTreeNode;
import javax.swing.tree.DefaultTreeModel;

// Takes an array of Strings and makes the first
// element a node and the rest leaves:
class Branch {
    private DefaultMutableTreeNode r;

    public Branch(String[] data) {
        r = new DefaultMutableTreeNode(data[0]);
        for (int i = 1; i < data.length; i++)
```



```

        r.add(new DefaultMutableTreeNode(data[i]));
    }

    public DefaultMutableTreeNode node() {
        return r;
    }
}

public class Trees extends JApplet {
    private String[][] data = { { "Colors", "Red", "Blue", "Green" },
        { "Flavors", "Tart", "Sweet", "Bland" },
        { "Length", "Short", "Medium", "Long" },
        { "Volume", "High", "Medium", "Low" },
        { "Temperature", "High", "Medium", "Low" },
        { "Intensity", "High", "Medium", "Low" } }, };

    private static int i = 0;

    private DefaultMutableTreeNode root, child, chosen;

    private JTree tree;

    private DefaultTreeModel model;

    public void init() {
        Container cp = getContentPane();
        root = new DefaultMutableTreeNode("root");
        tree = new JTree(root);
        // Add it and make it take care of scrolling:
        cp.add(new JScrollPane(tree), BorderLayout.CENTER);
        // Capture the tree's model:
        model = (DefaultTreeModel) tree.getModel();
        JButton test = new JButton("Press me");
        test.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                if (i < data.length) {
                    child = new Branch(data[i++]).node();
                    // What's the last one you clicked?
                    chosen = (DefaultMutableTreeNode) tree
                        .getLastSelectedPathComponent();
                    if (chosen == null)
                        chosen = root;
                    // The model will create the appropriate event.
                    // In response, the tree will update itself:
                    model.insertNodeInto(child, chosen, 0);
                    // Puts the new node on the chosen node.
                }
            }
        });
        // Change the button's colors:
        test.setBackground(Color.BLUE);
        test.setForeground(Color.WHITE);
        JPanel p = new JPanel();
        p.add(test);
        cp.add(p, BorderLayout.SOUTH);
    }
}

```

```

public static void main(String[] args) {
    run(new Trees(), 250, 250);
}

public static void run(JApplet applet, int width, int height) {
    JFrame frame = new JFrame();
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    frame.getContentPane().add(applet);
    frame.setSize(width, height);
    applet.init();
    applet.start();
    frame.setVisible(true);
}
} ///:~

```

4. A sample of using JEditorPane to display a web page



```

import java.awt.BorderLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.WindowAdapter;
import java.awt.event.WindowEvent;
import java.io.IOException;

import javax.swing.JEditorPane;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTextField;
import javax.swing.UIManager;

public class EditorPaneExample1 extends JFrame {
    public EditorPaneExample1() {

```

```

    super("JEditorPane Example 1");

    pane = new JEditorPane();
    pane.setEditable(false); // Read-only
    getContentPane().add(new JScrollPane(pane), "Center");

    JPanel panel = new JPanel();
    panel.setLayout(new BorderLayout(4, 4));
    JLabel urlLabel = new JLabel("URL: ", JLabel.RIGHT);
    panel.add(urlLabel, "West");
    textField = new JTextField(32);
    panel.add(textField, "Center");

    getContentPane().add(panel, "South");

    // Change page based on text field
    textField.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent evt) {
            String url = textField.getText();
            try {
                // Try to display the page
                pane.setPage(url);
            } catch (IOException e) {
                JOptionPane.showMessageDialog(pane, new String[] {
                    "Unable to open file", url }, "File Open Error",
                    JOptionPane.ERROR_MESSAGE);
            }
        }
    });
}

public static void main(String[] args) {
    try {
        UIManager.setLookAndFeel("com.sun.java.swing.plaf.windows.WindowsLookAndFe
el");
    } catch (Exception evt) {}

    JFrame f = new EditorPaneExample1();

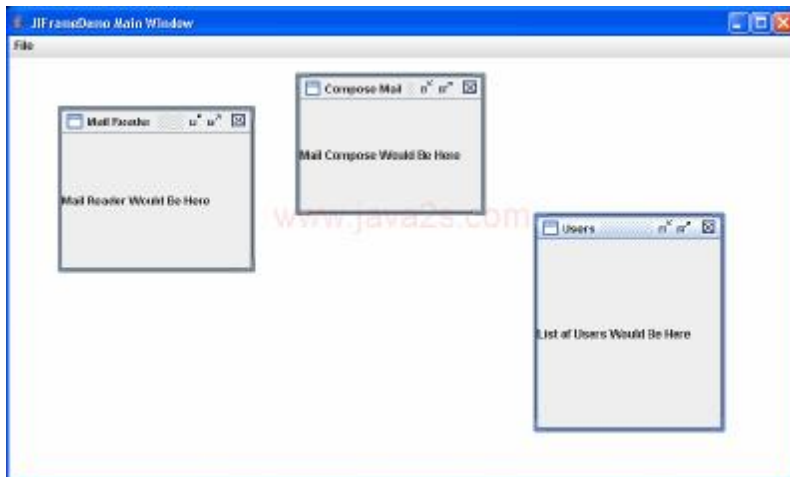
    f.addWindowListener(new WindowAdapter() {
        public void windowClosing(WindowEvent evt) {
            System.exit(0);
        }
    });
    f.setSize(500, 400);
    f.setVisible(true);
}

private JEditorPane pane;

private JTextField textField;
}

```

5. A sample application with many sub-windows



```

import java.awt.Dimension;
import java.awt.Toolkit;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.WindowAdapter;
import java.awt.event.WindowEvent;

import javax.swing.JDesktopPane;
import javax.swing.JFrame;
import javax.swing.JInternalFrame;
import javax.swing.JLabel;
import javax.swing.JMenu;
import javax.swing.JMenuBar;
import javax.swing.JMenuItem;

/**
 * Internal Frames Demo
 *
 * @version $Id: JIFrameDemo.java,v 1.4 2003/07/15 01:46:47 ian Exp $
 */
public class JIFrameDemo {

    /* Main View */
    public static void main(String[] a) {
        final JFrame jf = new JFrame("JIFrameDemo Main Window");

        Dimension screenSize = Toolkit.getDefaultToolkit().getScreenSize();
        screenSize.width -= 42;
        screenSize.height -= 42;
        jf.setSize(screenSize);
        jf.setLocation(20, 20);

        JMenuBar mb = new JMenuBar();
        jf.setJMenuBar(mb);
        JMenu fm = new JMenu("File");
        mb.add(fm);
        JMenuItem mi;
        fm.add(mi = new JMenuItem("Exit"));
        mi.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {

```

```
        System.exit(0);
    }
});

JDesktopPane dtp = new JDesktopPane();
//dtp.setBackground(Color.GREEN);
jf.setContentPane(dtp);

JInternalFrame mboxFrame = new JInternalFrame("Mail Reader", true,
    true, true, true);
JLabel reader = new JLabel("Mail Reader Would Be Here");
mboxFrame.setContentPane(reader);
mboxFrame.setSize(400, 300);
mboxFrame.setLocation(50, 50);
mboxFrame.setVisible(true);
dtp.add(mboxFrame);

JInternalFrame compFrame = new JInternalFrame("Compose Mail", true,
    true, true, true);
JLabel composer = new JLabel("Mail Compose Would Be Here");
compFrame.setContentPane(composer);
compFrame.setSize(300, 200);
compFrame.setLocation(200, 200);
compFrame.setVisible(true);
dtp.add(compFrame);

JInternalFrame listFrame = new JInternalFrame("Users", true, true,
    true, true);
JLabel list = new JLabel("List of Users Would Be Here");
listFrame.setContentPane(list);
listFrame.setLocation(400, 400);
listFrame.setSize(500, 200);
listFrame.setVisible(true);
dtp.add(listFrame);

jf.setVisible(true);
jf.addWindowListener(new WindowAdapter() {
    public void windowClosing(WindowEvent e) {
        jf.setVisible(false);
        jf.dispose();
        System.exit(0);
    }
});
}
```

6. A sample to capture key press event



```
import java.awt.BorderLayout;
import java.awt.Container;
import java.awt.event.KeyEvent;
import java.awt.event.KeyListener;

import javax.swing.JFrame;
import javax.swing.JTextField;

public class KeyTest {
    public static void main(String args[]) {
        JFrame frame = new JFrame("Key Listener");
        Container contentPane = frame.getContentPane();

        KeyListener listener = new KeyListener() {
            public void keyPressed(KeyEvent e) {
                dumpInfo("Pressed", e);
            }

            public void keyReleased(KeyEvent e) {
                dumpInfo("Released", e);
            }

            public void keyTyped(KeyEvent e) {
                dumpInfo("Typed", e);
            }

            private void dumpInfo(String s, KeyEvent e) {
                System.out.println(s);
                int code = e.getKeyCode();
                System.out.println("\tCode: " + KeyEvent.getKeyText(code));
                System.out.println("\tChar: " + e.getKeyChar());
                int mods = e.getModifiersEx();
                System.out.println("\tMods: "
                    + KeyEvent.getModifiersExText(mods));
                System.out.println("\tLocation: "
                    + location(e.getKeyLocation()));
                System.out.println("\tAction? " + e.isActionKey());
            }

            private String location(int location) {
                switch (location) {
                    case KeyEvent.KEY_LOCATION_LEFT:
                        return "Left";
                    case KeyEvent.KEY_LOCATION_RIGHT:

```

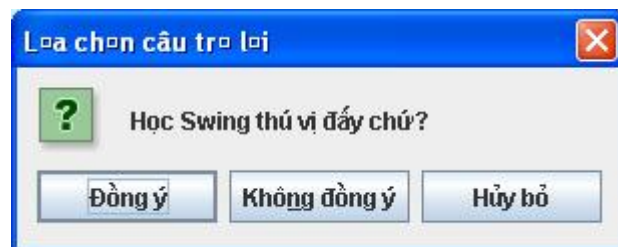
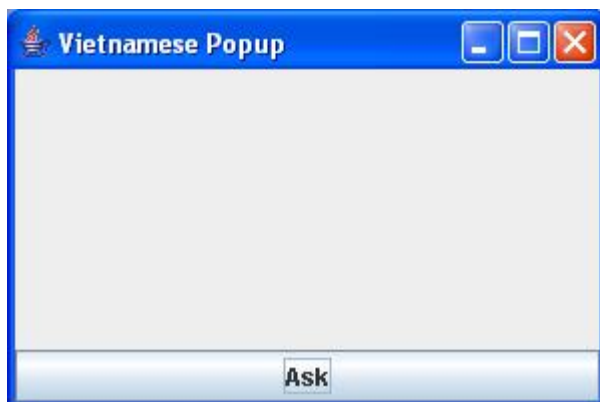
```

        return "Right";
    case KeyEvent.KEY_LOCATION_NUMPAD:
        return "NumPad";
    case KeyEvent.KEY_LOCATION_STANDARD:
        return "Standard";
    case KeyEvent.KEY_LOCATION_UNKNOWN:
    default:
        return "Unknown";
    }
}
};

JTextField text = new JTextField();
text.addKeyListener(listener);
contentPane.add(text, BorderLayout.NORTH);
frame.pack();
frame.show();
}
}

```

7. Use Resource Bundle to create an application that enables changing language by changing locale.



```

import java.awt.BorderLayout;
import java.awt.Component;
import java.awt.Container;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.util.Locale;
import java.util.ResourceBundle;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.UIManager;

public class VietnamesePopup {
    public static void main(String args[]) {
        // Get bundle
        Locale locale = new Locale("vi", "VN");
        ResourceBundle bundle = ResourceBundle.getBundle("i18nstudy/popup", locale);

        // Get strings
    }
}

```

```
String ok = bundle.getString("ok");
String cancel = bundle.getString("cancel");
String yes = bundle.getString("yes");
String no = bundle.getString("no");

// Localize buttons for French
UIManager.put("OptionPane.cancelButtonText", cancel);
UIManager.put("OptionPane.noButtonText", no);
UIManager.put("OptionPane.okButtonText", ok);
UIManager.put("OptionPane.yesButtonText", yes);

JFrame frame = new JFrame("Vietnamese Popup");
frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
JButton button = new JButton("Ask");
ActionListener actionListener = new ActionListener() {
    public void actionPerformed(ActionEvent actionEvent) {
        Component source = (Component) actionEvent.getSource();
        int result = JOptionPane.showConfirmDialog(source,
            ResourceBundle.getBundle("il8nstudy/popup", new Locale("vi",
"VN")).getString("question"),
            ResourceBundle.getBundle("il8nstudy/popup", new Locale("vi",
"VN")).getString("choice"),
            JOptionPane.YES_NO_CANCEL_OPTION);
        if (result == JOptionPane.YES_OPTION) {
            System.out.println("Yes");
        } else if (result == JOptionPane.NO_OPTION) {
            System.out.println("No");
        } else if (result == JOptionPane.CANCEL_OPTION) {
            System.out.println("Cancel");
        } else if (result == JOptionPane.CLOSED_OPTION) {
            System.out.println("Closed");
        }
    }
};
button.addActionListener(actionListener);
Container contentPane = frame.getContentPane();
contentPane.add(button, BorderLayout.SOUTH);
frame.setSize(300, 200);
frame.setVisible(true);
}
```

+ Create a file named “popup_vi_VN.properties” by an editor (if you use Netbeans, you can type directly the Vietnamese strings).

```
#Button captions on dialog
ok=Ch\u1EA5p nh\u1EADn

cancel=H\u1EE7y b\u1ECF

yes=\u0110\u1ED3ng \u00FD

no=Kh\u00F4ng \u0111\u1ED3ng \u00FD

#Another strings
question=H\u1ECDc Swing th\u00FA v\u1ECB \u0111\u1EA5y ch\u1EE9?
```

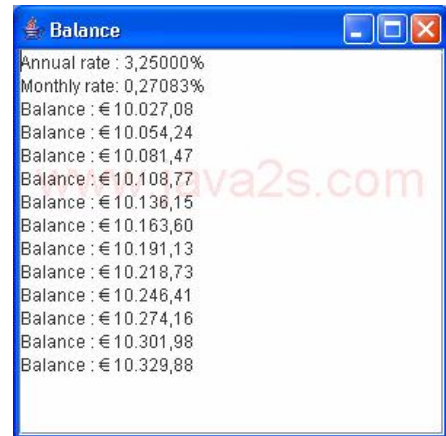
```
choice=L\u1EF1a ch\u1ECDn c\u00E2u tr\u1EA3 l\u1EDDi
```

8. Number Format sample

```
import java.math.BigDecimal;
import java.text.DecimalFormat;
import java.text.NumberFormat;
import java.util.Locale;

import javax.swing.JFrame;
import javax.swing.JScrollPane;
import javax.swing.JTextArea;

public class BigDecFormat {
    public static void main(String args[]) {
        StringBuffer buffer = new StringBuffer();
        Locale italian = new Locale("it", "IT", "EURO");
        Locale.setDefault(italian);
        BigDecimal rate = new BigDecimal(".03250000");
        BigDecimal months = new BigDecimal("12");
        BigDecimal monthlyRate = rate
            .divide(months, BigDecimal.ROUND_HALF_DOWN);
        NumberFormat pf = new DecimalFormat("#,##0.00000%");
        buffer.append("Annual rate : " + pf.format(rate.doubleValue()) + "\n");
        buffer.append("Monthly rate: " + pf.format(monthlyRate.doubleValue())
            + "\n");
        BigDecimal balance = new BigDecimal("10000.0000");
        NumberFormat nf = NumberFormat.getCurrencyInstance();
        for (int i = 0; i < 12; i++) {
            BigDecimal interest = balance.multiply(monthlyRate);
            balance = balance.add(interest);
            buffer.append("Balance : " + nf.format(balance.doubleValue())
                + "\n");
        }
        JFrame frame = new JFrame("Balance");
        JTextArea text = new JTextArea(buffer.toString());
        JScrollPane pane = new JScrollPane(text);
        frame.getContentPane().add(pane);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setSize(300, 300);
        frame.show();
    }
}
```



9. String format sample

```
D:\Java_Dev\WEB\java2s>java DateNumberSample
3.5K was deleted on 4/30/05 2:14 PM.
```

```
import java.text.MessageFormat;
import java.util.Date;
```

```
public class DateNumberSample {
    public static void main(String args[]) {
        Double kb = new Double(3.5);
        Date today = new Date();

        String pattern = "{0}K was deleted on {1}.";
        Object[] arguments = { kb, today };
        System.out.println(MessageFormat.format(pattern, arguments));
    }
}
```

10. Date Format sample

```
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Locale;

public class SimpleDateFormatDemo {

    static public void displayDate(Locale currentLocale) {

        Date today;
        String result;
        SimpleDateFormat formatter;

        formatter = new SimpleDateFormat("EEE d MMM yy", currentLocale);
        today = new Date();
        result = formatter.format(today);

        System.out.println("Locale: " + currentLocale.toString());
        System.out.println("Result: " + result);
    }

    static public void displayPattern(String pattern, Locale currentLocale) {

        Date today;
        SimpleDateFormat formatter;
        String output;

        formatter = new SimpleDateFormat(pattern, currentLocale);
        today = new Date();
        output = formatter.format(today);

        System.out.println(pattern + "    " + output);
    }

    static public void main(String[] args) {

        Locale[] locales = { new Locale("fr", "FR"), new Locale("de", "DE"),
                             new Locale("en", "US") };

        for (int i = 0; i < locales.length; i++) {
            displayDate(locales[i]);
        }
    }
}
```

```
        System.out.println();
    }

    String[] patterns = { "dd.MM.yy", "yyyy.MM.dd G 'at' hh:mm:ss z",
        "EEE, MMM d, 'yy", "h:mm a", "H:mm", "H:mm:ss:SSS",
        "K:mm a,z", "yyyy.MMMM.dd GGG hh:mm aaa" };

    for (int k = 0; k < patterns.length; k++) {
        displayPattern(patterns[k], new Locale("en", "US"));
        System.out.println();
    }

    System.out.println();
}
}
```

5. Apply many Format types

```
import java.text.ChoiceFormat;
import java.text.Format;
import java.text.MessageFormat;
import java.text.NumberFormat;
import java.util.Locale;
import java.util.ResourceBundle;

public class ChoiceFormatDemo {

    static void displayMessages(Locale currentLocale) {

        System.out.println("currentLocale = " + currentLocale.toString());
        System.out.println();

        ResourceBundle bundle = ResourceBundle.getBundle("ChoiceBundle",
            currentLocale);

        MessageFormat messageForm = new MessageFormat("");
        messageForm.setLocale(currentLocale);

        double[] fileLimits = { 0, 1, 2 };

        String[] fileStrings = { bundle.getString("noFiles"),
            bundle.getString("oneFile"), bundle.getString("multipleFiles") };

        ChoiceFormat choiceForm = new ChoiceFormat(fileLimits, fileStrings);

        String pattern = bundle.getString("pattern");
        Format[] formats = { choiceForm, null, NumberFormat.getInstance() };

        messageForm.applyPattern(pattern);
        messageForm.setFormats(formats);

        Object[] messageArguments = { null, "XDisk", null };

        for (int numFiles = 0; numFiles < 4; numFiles++) {
```

```
        messageArguments[0] = new Integer(numFiles);
        messageArguments[2] = new Integer(numFiles);
        String result = messageForm.format(messageArguments);
        System.out.println(result);
    }
}

static public void main(String[] args) {
    displayMessages(new Locale("en", "US"));
    System.out.println();
    displayMessages(new Locale("fr", "FR"));
}

//File: ChoiceBundle.properties
/*
# Choice.properties
noFiles = are no files
oneFile = is one file
multipleFiles = are {2} files
pattern = There {0} on {1}.
*/

//File: ChoiceBundle_fr_FR.properties
/*
# Choice.properties_fr_FR
noFiles = n' y a pas des fichiers
oneFile = y a un fichier
multipleFiles = y a {2} fichiers
pattern = Il {0} sur {1}.

*/

//File: ChoiceBundle_en_US.properties
/*
# Choice.properties_en_US
noFiles = are no files
oneFile = is one file
multipleFiles = are {2} files
pattern = There {0} on {1}.

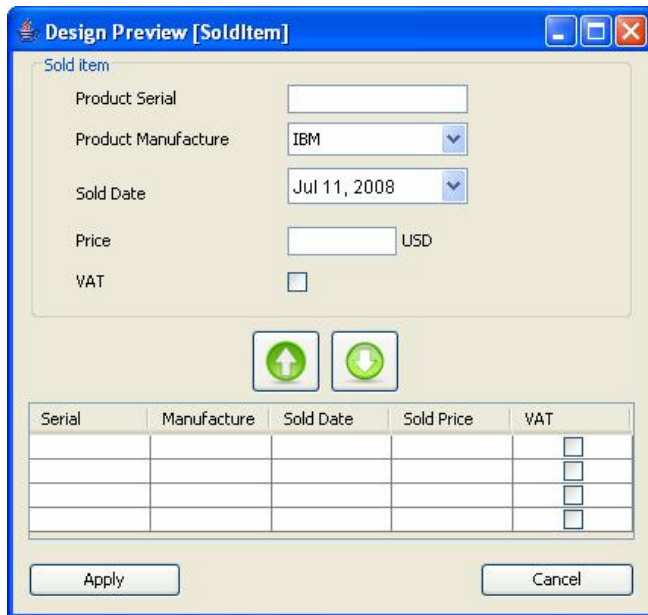
*/
```

Do It Yourself

3.1. Do workshop 5, 6

3.2. Create a directory tree of the C drive (like Windows Explorer)

3.3. Create a table to store sold products. When user clicks down-arrow button, the details of the sold item is pushed down the table.



Design Preview [SoldItem]

Sold Item

Product Serial:

Product Manufacture:

Sold Date:

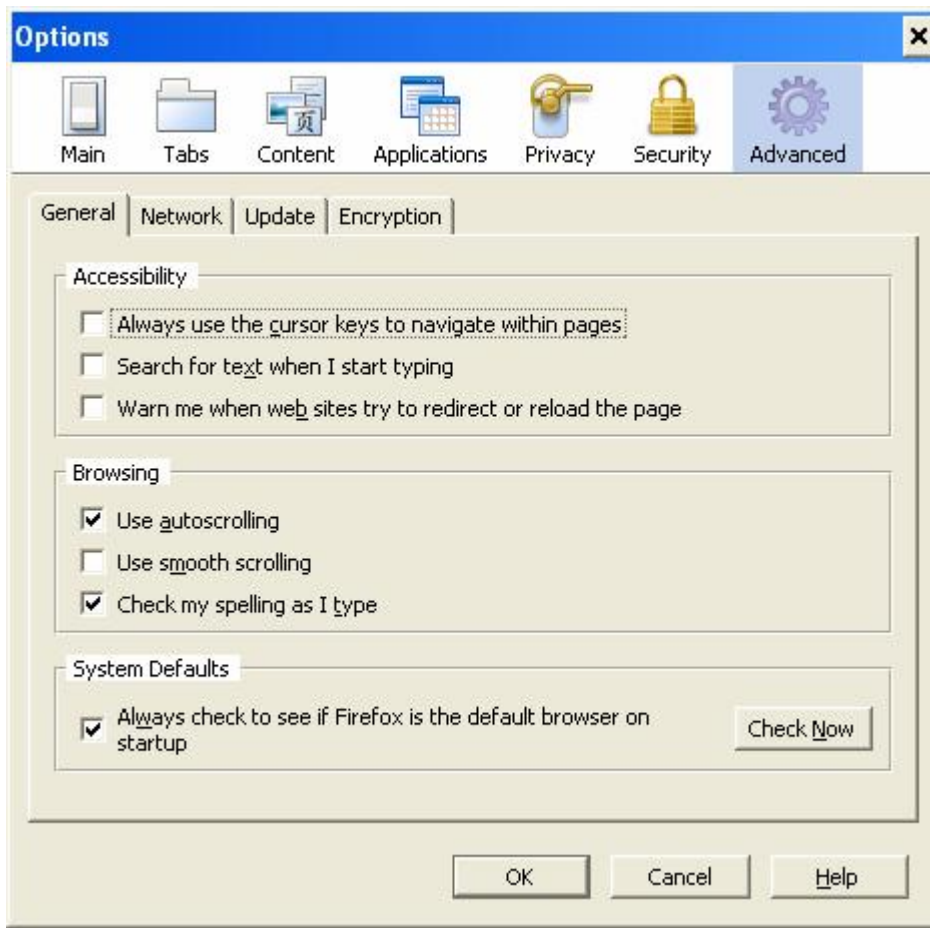
Price: USD

VAT: ☐

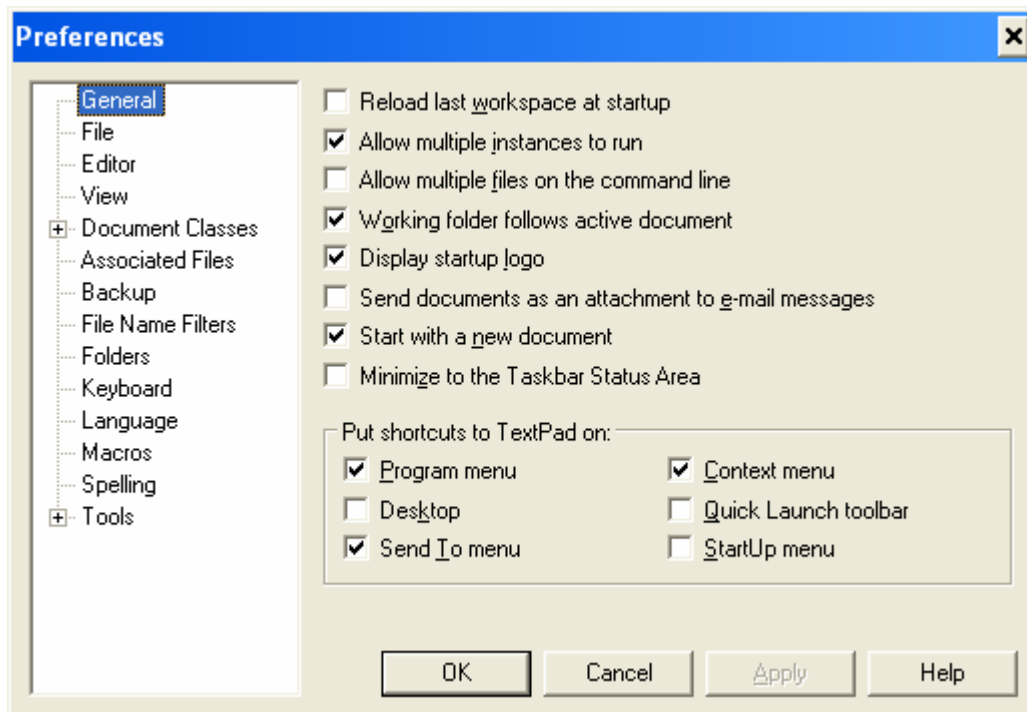
Serial	Manufacture	Sold Date	Sold Price	VAT
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>

3.4. Create a simple web browser. It includes a textfield to input an URL and a textarea to display web page. You should use JEditorPane to do this.

3.5. Use Netbeans to create a window like the Options window of Firefox.



3.6. Use JTree to create a frame like this:



3.7. Convert menu of Notepad into Vietnamese by using I18N

3.8. Continue developing sample 5 in the lab 2, add more menu “Language”. When user changes the language radion button, change language for all menu items.



Self-study Samples

+ Menu samples on java2s.com

<http://www.java2s.com/Code/Java/Swing-JFC/CatalogSwing-JFC.htm>
<http://www.java2s.com/Code/Java/Swing-JFC/Formatted-TextField.htm>
<http://www.java2s.com/Code/Java/Swing-JFC/Text-EditorPane.htm>
<http://www.java2s.com/Code/Java/Swing-JFC/InternalFrame.htm>
<http://www.java2s.com/Code/Java/Swing-JFC/MDI.htm>
<http://www.java2s.com/Code/Java/Swing-JFC/Tooltip.htm>
<http://www.java2s.com/Code/Java/Swing-JFC/Tree.htm>

<http://www.java2s.com/Code/Java/Swing-JFC/TabbedPane.htm>
<http://www.java2s.com/Code/Java/Swing-JFC/Timer.htm>
<http://www.java2s.com/Code/Java/Swing-JFC/Various-Event-Listener.htm>

+ Java tutorial

+ Samples about I18N on java2s.com

<http://www.java2s.com/Code/Java/Development-Class/I18N.htm>

+ I18N guide in Java Tutorial

</tutorial/i18n/index.html>

+ I18N tutorial in Netbeans

<http://www.netbeans.org/kb/articles/gui-i18n.html>

+ javapassion.com