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/*
 * Examples of JTextField and JLabel
 */

import javax.swing.*;
import java.awt.event.*;
import java.awt.*;

public class ButtonFrame extends JFrame
    implements ActionListener
{
    private JLabel label1, label2, label3;
    private JTextField field1, field2, field3;

    public ButtonFrame()
    {
        // set the basic window properties
        setTitle("Button Frame lecture 3");
        setSize(500, 200);
        setLocation(300, 100);

        // replace default BorderLayout with a grid
        GridLayout grid2 = new GridLayout(3,2);
        setLayout(grid2);

        // create labels and text fields
        label1 = new JLabel("Just ncol    ");
        label2 = new JLabel("Just text    ");
        label3 = new JLabel("Text and ncol");
        field1 = new JTextField(20);
        field2 = new JTextField("Initial text");
        field3 = new JTextField("" + 42, 20);

        // listen to the text fields
        field1.addActionListener(this);
        field2.addActionListener(this);
        field3.addActionListener(this);

        // add them in the right order
        add(label1);
        add(field1);
        add(label2);
        add(field2);
        add(label3);
        add(field3);
    }
}

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        // make it visible
        setVisible(true);
    }
    public void actionPerformed(ActionEvent e)
    {
        String text;

        if (e.getSource() == field1)
        {
            text = field1.getText();
            field2.setText(text);
            field3.setText(text);
        }
        else if (e.getSource() == field2)
        {
            text = field2.getText();
            int n = 0;
            try
            {
                n = Integer.parseInt(text.trim());
                System.err.println("Integer value = " + n);
            }
            catch (NumberFormatException x)
            {
                System.err.println(text + " is not a Number");
            }
        }
        else
        {
            text = field3.getText();
            System.err.println(text);
        }
    }
}

```