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// TextFieldTest.java
// Demonstrating the JTextField class.

// Java core packages
import java.awt.*;
import java.awt.event.*;

// Java extension packages
import javax.swing.*;

public class TextFieldTest extends JFrame {
    private static final long serialVersionUID = -819072448649618326L;
    private JTextField textField1, textField2, textField3;
    private JPasswordField passwordField;

    // set up GUI
    public TextFieldTest() {
        super("Testing JTextField and JPasswordField");

        Container container = getContentPane();
        container.setLayout(new FlowLayout());

        // construct textfield with default sizing
        textField1 = new JTextField(10);
        container.add(textField1);

        // construct textfield with default text
        textField2 = new JTextField("Enter text here");
        container.add(textField2);

        // construct textfield with default text and
        // 20 visible elements and can't be modified
        textField3 = new JTextField("Uneditable text field", 20);
        textField3.setEditable(false);
        container.add(textField3);

        // construct textfield with default text
        passwordField = new JPasswordField("Hidden text");
        container.add(passwordField);

        // register event handlers
        TextFieldHandler handler = new TextFieldHandler();
        textField1.addActionListener(handler);
        textField2.addActionListener(handler);
        textField3.addActionListener(handler);
        passwordField.addActionListener(handler);

        setSize(325, 100);
        setVisible(true);
    }

    // execute application
    public static void main(String args[]) {
        TextFieldTest application = new TextFieldTest();

        application.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }

    // private inner class for event handling
    private class TextFieldHandler implements ActionListener {

        // process text field events
        public void actionPerformed(ActionEvent event) {
            String string = "";
        }
    }
}
```

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// user pressed Enter in JTextField textField1
if (event.getSource() == textField1)
    string = "textField1: " + event.getActionCommand();

// user pressed Enter in JTextField textField2
else if (event.getSource() == textField2)
    string = "textField2: " + event.getActionCommand();

// user pressed Enter in JTextField textField3
else if (event.getSource() == textField3)
    string = "textField3: " + event.getActionCommand();

// user pressed Enter in JTextField passwordField
else if (event.getSource() == passwordField) {
    @SuppressWarnings("unused")
    JPasswordField pwd = (JPasswordField) event.getSource();

    string = "passwordField: "
        + new String(passwordField.getPassword());
}

JOptionPane.showMessageDialog(null, string);
}

} // end private inner class TextFieldHandler

} // end class TextFieldTest

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