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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 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 = "";

    // 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 ) {
        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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