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

public class SampleTextField {

    public static void main(String args[]) {
        JFrame application = new JFrame(
            "JTextField and JPasswordField Demonstration");
        application.setLayout(new FlowLayout());

        // construct textfield with default sizing
        JTextField textField = new JTextField(10);
        application.add(textField);
        textField.addActionListener(new TextFieldHandler("Text box #1"));

        // construct textfield with default text
        textField = new JTextField("Enter text here");
        application.add(textField);
        textField.addActionListener(new TextFieldHandler("Text box #2"));

        // construct textfield with default text and
        // 20 visible elements and can't be modified
        textField = new JTextField("Uneditable text field", 20);
        textField.setEditable(false);
        application.add(textField);
        textField.addActionListener(new TextFieldHandler("Text box #3"));

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

        application.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        application.setSize(325, 100);
        application.setVisible(true);
    }
}

class TextFieldHandler implements ActionListener {
    private String name;

    TextFieldHandler(String name) {
        this.name = name + ": ";
    }

    // process text field events
    public void actionPerformed(ActionEvent event) {
        String msg = name + event.getActionCommand();
        JOptionPane.showMessageDialog(null, msg);
    }
}

class PasswordFieldHandler implements ActionListener {

    public void actionPerformed(ActionEvent event) {
        JPasswordField pwd = (JPasswordField) (event.getSource());
        String msg = "passwordField: " + new String(pwd.getPassword());
        JOptionPane.showMessageDialog(null, msg);
    }
}
}
```

```
/*  
 * Based on example code from Deitel & Associates, Inc. Prentice Hall. (2002)  
*/
```