A common style of programming is to put all processing in the GUI. This works Ok as long as the "model", the logic, is so small that it isn’t worth putting into a separate class.

However, mixing model with presentation usually makes the program hard to read, and the inevitable growth of the program leads to a mess.

This fails the simple Interface Independence test.
Could the model easily work with a command line or web interface? No.

It also fails the Model Independence test.
Could we easily change the model, eg, to BigDecimal? No.

```java
import java.awt.*;
import javax.swing.*;
import java.awt.event.*;
import java.math.BigInteger;

public class BigBlob {
    public static void main(String[] args) {
        JFrame window = new BigBlobGUI();
        window.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        window.setTitle("Simple Calc");
        window.setVisible(true);
    }
}

class BigBlobGUI extends JFrame {
    //... Constants
    private static final String INITIAL_VALUE = "1";

    //... Components
    private JTextField m_totalTf = new JTextField(10);
    private JTextField m_userInputTf = new JTextField(10);
    private JButton m_multiplyBtn = new JButton("Multiply");
    private JButton m_clearBtn = new JButton("Clear");

    private BigInteger m_total; // The total current value state.

    /** Constructor */
    BigBlobGUI() {
        //... Initialize components and model
        m_total = new BigInteger(INITIAL_VALUE);
        m_totalTf.setText(INITIAL_VALUE);
        m_totalTf.setEditable(false);

        //... Layout the components.
        JPanel content = new JPanel();
        content.setLayout(new FlowLayout());
        content.add(new JLabel("Input");
        content.add(m_userInputTf);
        content.add(m_multiplyBtn);
        content.add(new JLabel("Total");
        content.add(m_totalTf);
        content.add(m_clearBtn);

        //... finalize layout
        this.getContentPane(content);
    }
}
```
this.pack();

//... Listener to do multiplication
m_multiplyBtn.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        try {
            m_total = m_total.multiply(new BigInteger(m_userInputTf.getText()));
        }
        catch (NumberFormatException nex) {
            JOptionPane.showMessageDialog(BigBlobGUI.this, "Bad Number");
        } 
    }
});

//... Listener to clear.
m_clearBtn.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        m_total = new BigInteger(INITIAL_VALUE);
        m_totalTf.setText(INITIAL_VALUE);
    }
});