```java
package hr.unipu.java;

import com.sun.java.swing.plaf.motif.MotifButtonUI;
import com.sun.java.swing.plaf.windows.
WindowsButtonUI;
import javax.swing.*;
import javax.swing.border.EmptyBorder;
import javax.swing.plaf.ButtonUI;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.lang.reflect.InvocationTargetException;

public class Kalkulator extends JFrame implements
ActionListener {
    private double rezultat = 0;
    private String operator = "";
    private JTextArea display = new JTextArea(4,25);
    private boolean prazno = true;

    Kalkulator() {
        setSize(300,450);
        setDefaultCloseOperation(WindowConstants.
EXIT_ON_CLOSE);
        setTitle("Kalkulator");

        JPanel panel = new JPanel(new BorderLayout(10
,10));
        Color color = new Color(255,255,0);
        Color front = new Color(128,128,0);

        panel.setBackground(color);
        panel.setBorder(new EmptyBorder(6,4,6,4));
        setContentPane(panel);
        display.setEditable(false);

        panel.add(display,"North");

        JPanel panelButtons=new JPanel(new GridLayout
(4, 4));
        String buttonLabels="789/456*123-0.=+";

        for (int i=0; i<buttonLabels.length(); i++) {
            JButton b = new JButton(buttonLabels.
```

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39 substring(i, i+1 ));
40             panelButtons.add(b);
41             panelButtons.setBackground(front);
42             panelButtons.setFont(Font.getFont("Times
   New Roman"));
43             b.setUI((ButtonUI) MotifButtonUI.createUI
   (b));
44             b.addActionListener(this);
45         }
46         panel.add(panelButtons,"Center");
47 
48         JButton clear = new JButton("Brisanje");
49         clear.setUI((ButtonUI) WindowsButtonUI.
   createUI(clear));
50         panel.add(clear,"South");
51 
52         clear.addActionListener(new ActionListener(){
53             @Override
54             public void actionPerformed(ActionEvent e
   ){
55                 display.setText("");
56                 rezultat = 0;
57                 operator = "";
58                 prazno = true;
59             }
60         });
61     }
62 
63     public void actionPerformed(ActionEvent e){
64 
65         String broj=e.getActionCommand();
66         if ('0' <= broj.charAt(0) && broj.charAt(0
   ) <= '9' ||
67                 broj.equals(".")){
68             if (prazno){
69                 display.setText(broj);
70             } else
71                 display.setText(display.getText() +
   broj);
72             prazno = false;
73         }
74         else{
75             if(rezultat == 0) rezultat = Double.
   parseDouble(display.getText());
```

```
 76              double x=Double.parseDouble(display.
    getText());
 77              Izračun (x);
 78              operator = broj;
 79              prazno = true;
 80          }
 81      }
 82
 83
 84      private void Izračun (double x){
 85          if(operator.equals("+")){
 86              rezultat = rezultat + x;
 87          }
 88          else if(operator.equals("-"))
 89              rezultat = rezultat - x;
 90          else if (operator.equals("*"))
 91              rezultat = rezultat * x;
 92          else if (operator.equals("/"))
 93              rezultat = rezultat / x;
 94          else if (operator.equals(" = "))
 95              System.out.println("Rezultat je: " +
    rezultat);
 96          display.setText("" + rezultat);
 97      }
 98
 99
100      public static void main(String[] args){
101          try{
102              SwingUtilities.invokeAndWait(new
    Runnable(){
103                  @Override
104                  public void run(){
105                      Kalkulator kalkDel = new
    Kalkulator();
106                      kalkDel.setLocation(60,30);
107                      kalkDel.setVisible(true);
108                  }
109              });
110          }catch (InvocationTargetException |
    InterruptedException e){
111              e.printStackTrace();
112          }
113      }
114  }
```