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

public class Calculator extends JFrame implements ActionListener {
    JTextField inputField;
    String expression = "";
    double num1, num2, result;
    char operator;

    public Calculator() {
        setTitle("Styled Calculator");
        setSize(400, 550);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        setLayout(new BorderLayout());
        getContentPane().setBackground(new Color(30, 30, 30)); // dark grey

        // Input field
        inputField = new JTextField();
        inputField.setEditable(false);
        inputField.setFont(new Font("Consolas", Font.PLAIN, 26));
        inputField.setBackground(Color.BLACK);
        inputField.setForeground(Color.YELLOW);
        inputField.setBorder(BorderFactory.createEmptyBorder(12, 12, 12, 12));
        add(inputField, BorderLayout.NORTH);

        // Buttons
        JPanel buttonPanel = new JPanel(new GridLayout(5, 4, 8, 8));
        buttonPanel.setBackground(new Color(30, 30, 30)); // match background

        String[] buttons = {
            "7", "8", "9", "/",
            "4", "5", "6", "*",
            "1", "2", "3", "-",
            "0", ".", "=", "+",
            "C"
        };

        for (String text : buttons) {
            JButton btn = new JButton(text);
            btn.setFont(new Font("Segoe UI", Font.BOLD, 20));
            if ("0123456789.".contains(text)) {
                btn.setBackground(new Color(58, 58, 58)); // grey
            } else {
                btn.setBackground(Color.BLACK); // operator
            }
            btn.setForeground(Color.YELLOW);
            btn.setFocusPainted(false);
            btn.setBorderPainted(false);
            btn.addActionListener(this);
            buttonPanel.add(btn);
        }

        add(buttonPanel, BorderLayout.CENTER);
        setVisible(true);
    }

    public void actionPerformed(ActionEvent e) {
        String cmd = e.getActionCommand();

        if ((cmd.charAt(0) >= '0' && cmd.charAt(0) <= '9') || cmd.equals(".")) {
            expression += cmd;
            inputField.setText(expression);
        } else if (cmd.equals("C")) {
            expression = "";
            inputField.setText("");
        } else if (cmd.equals("=")) {
            try {
                String[] parts = expression.split("[-+*/]");
                if (parts.length < 2) {
                    inputField.setText("Error");
                    return;
                }
            }
        }
    }
}

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        num1 = Double.parseDouble(parts[0]);
        num2 = Double.parseDouble(parts[1]);
        operator = expression.charAt(parts[0].length());
        switch (operator) {
            case '+': result = num1 + num2; break;
            case '-': result = num1 - num2; break;
            case '*': result = num1 * num2; break;
            case '/':
                if (num2 == 0) {
                    inputField.setText("Divide by 0");
                    expression = "";
                    return;
                }
                result = num1 / num2;
                break;
            default: inputField.setText("Error"); return;
        }
        expression += "=" + result;
        inputField.setText(expression);
    } catch (Exception ex) {
        inputField.setText("Error");
    }
} else {
    if (!expression.isEmpty() && !"+-*/".contains("" + expression.charAt(expression.length() - 1))) {
        expression += cmd;
        inputField.setText(expression);
    }
}
}

public static void main(String[] args) {
    SwingUtilities.invokeLater(Calculator::new);
}
}

```

9\*8/7+6-5=72.0

7

8

9

/

4

5

6

\*

1

2

3

-

0

.

=

+

C