

1. Create a new Java class (e.g., "Calculator.java") and add the following code:

```
import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

public class Calculator {

    private JFrame frame;

    private JTextField textField;

    private double number1, number2;

    private char operation;

    public Calculator() {

        frame = new JFrame("Calculator");

        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        frame.setLayout(new FlowLayout());

        textField = new JTextField(20);

        frame.add(textField);

        JButton button1 = new JButton("1");

        button1.addActionListener(new ActionListener() {

            public void actionPerformed(ActionEvent e) {

                textField.setText(textField.getText() + "1");

            }

        });

        frame.add(button1);

        JButton button2 = new JButton("2");

        button2.addActionListener(new ActionListener() {

            public void actionPerformed(ActionEvent e) {

                textField.setText(textField.getText() + "2");

            }

        });

    }

}
```

```
frame.add(button2);

JButton buttonAdd = new JButton("+");

buttonAdd.addActionListener(new ActionListener() {

    public void actionPerformed(ActionEvent e) {

        number1 = Double.parseDouble(textField.getText());

        operation = '+';

        textField.setText("");

    }

});

frame.add(buttonAdd);

JButton buttonEqual = new JButton("=");

buttonEqual.addActionListener(new ActionListener() {

    public void actionPerformed(ActionEvent e) {

        number2 = Double.parseDouble(textField.getText());

        double result = 0;

        switch (operation) {

            case '+':

                result = number1 + number2;

                break;

            case '-':

                result = number1 - number2;

                break;

            case '*':

                result = number1 * number2;

                break;

            case '/':

                result = number1 / number2;
```

```
        break;

    }

    textField.setText(String.valueOf(result));

}

});

frame.add(buttonEqual);


frame.pack();

frame.setVisible(true);

}


public static void main(String[] args) {

    new Calculator();

}

}
```