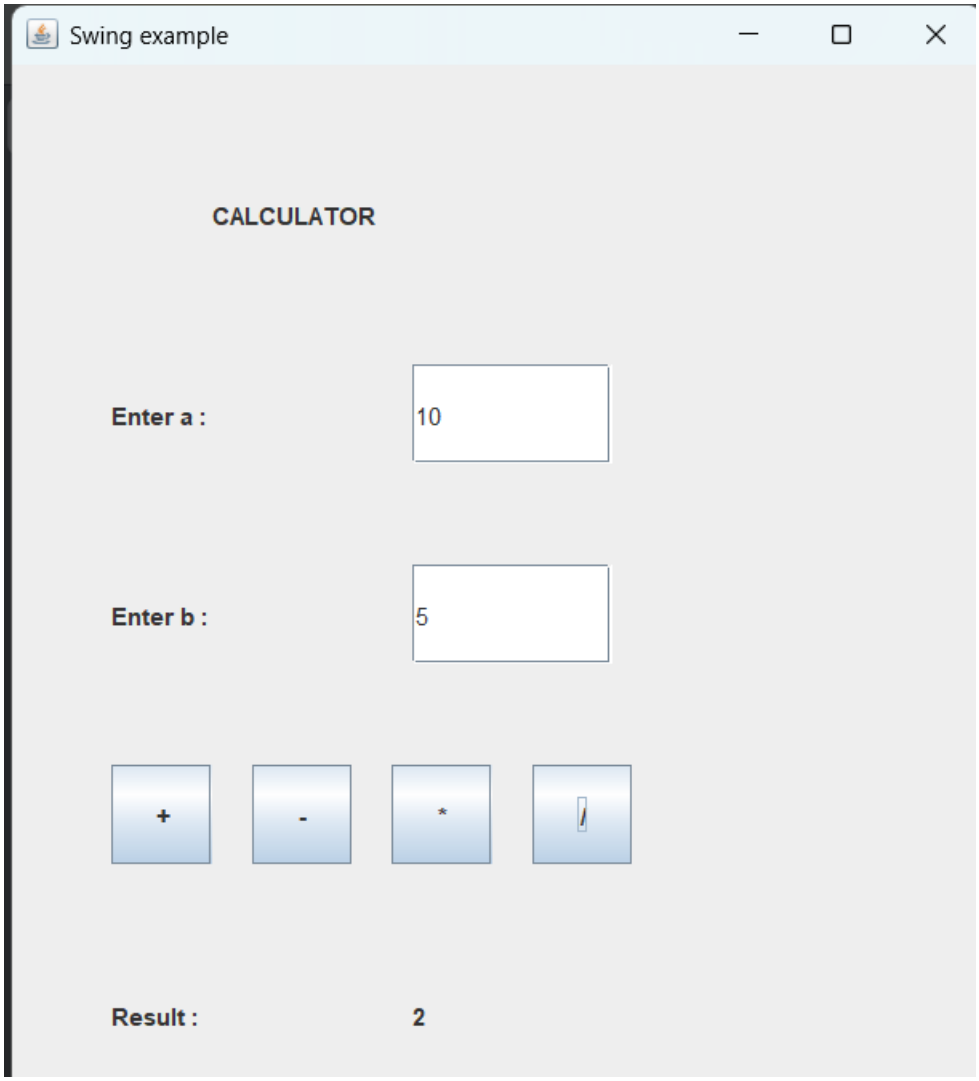
❖ **Calculator Application using Swing Package**:

```
package Swing;


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

public class SwingExample {
  public static void main(String arg[])
  {
    JFrame f = new JFrame("Swing example");
    f.setLayout(null);
    f.setSize(500 , 800);

    //labels
    JLabel cal=new JLabel("CALCULATOR");
    cal.setBounds(100 , 50 , 100 , 50);

    JLabel a=new JLabel("Enter a :");
    a.setBounds(50 , 150 , 100 , 50);

    JLabel b=new JLabel("Enter b :");
    b.setBounds(50 , 250 , 100 , 50);

    JLabel res=new JLabel("Result :");
    res.setBounds(50 , 450 , 100 , 50);

    JLabel showres = new JLabel();
    showres.setBounds(200 , 450 , 100 , 50);

    //textfield

    JTextField t1= new JTextField();
    t1.setBounds(200 , 150 , 100 , 50);

    JTextField t2= new JTextField();
    t2.setBounds(200 , 250 , 100 , 50);


    //buttons
    JButton add= new JButton("+");
    add.setBounds(50 , 350 , 50 , 50);

    JButton sub= new JButton("-");
    sub.setBounds(120 , 350 , 50 , 50);
```

```
JButton mul= new JButton("*");
mul.setBounds(190 , 350 , 50 , 50);

JButton div= new JButton("/");
div.setBounds(260 , 350 , 50 , 50);




//action events
add.addActionListener(new ActionListener() {
  @Override
  public void actionPerformed(ActionEvent e) {
    //fetch(2) , add , show
    int p = Integer.parseInt(t1.getText());
    int q= Integer.parseInt(t2.getText());
    int sum= p +q;
    showres.setText(String.valueOf(sum));
  }
});

sub.addActionListener(new ActionListener() {
  @Override
  public void actionPerformed(ActionEvent e) {
    //fetch(2) , add , show
    int p = Integer.parseInt(t1.getText());
    int q= Integer.parseInt(t2.getText());
    int substraction= p - q;
    showres.setText(String.valueOf(substraction));
  }
});

mul.addActionListener(new ActionListener() {
  @Override
  public void actionPerformed(ActionEvent e) {
    //fetch(2) , add , show
    int p = Integer.parseInt(t1.getText());
    int q= Integer.parseInt(t2.getText());
    int multiplication= p *q;
    showres.setText(String.valueOf(multiplication));
  }
});
div.addActionListener(new ActionListener() {
  @Override
  public void actionPerformed(ActionEvent e) {
    //fetch(2) , add , show
    int p = Integer.parseInt(t1.getText());
    int q= Integer.parseInt(t2.getText());
```

```
            int division= p /q;
            showres.setText(String.valueOf(division));
          }
        });

        //adding labels
        f.add(cal);
        f.add(a);
        f.add(b);
        f.add(res);
        //adding textfields
        f.add(t1);
        f.add(t2);
        f.add(showres);
        //adding buttons
        f.add(add);
        f.add(sub);
        f.add(mul);
        f.add(div);

        f.setVisible(true);
    }
}
```

Output:


Swing example
CALCULATOR
Enter a :
10
Enter b :
5
+
-
*
/
Result :
2