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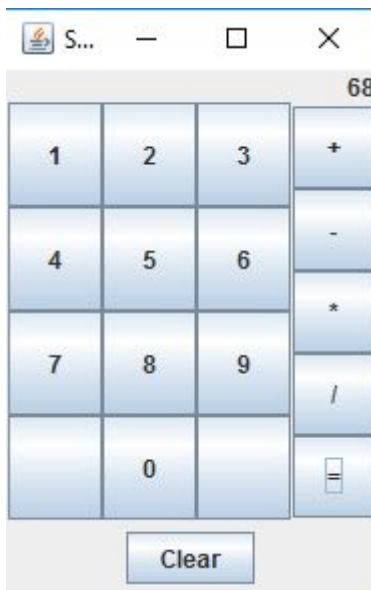
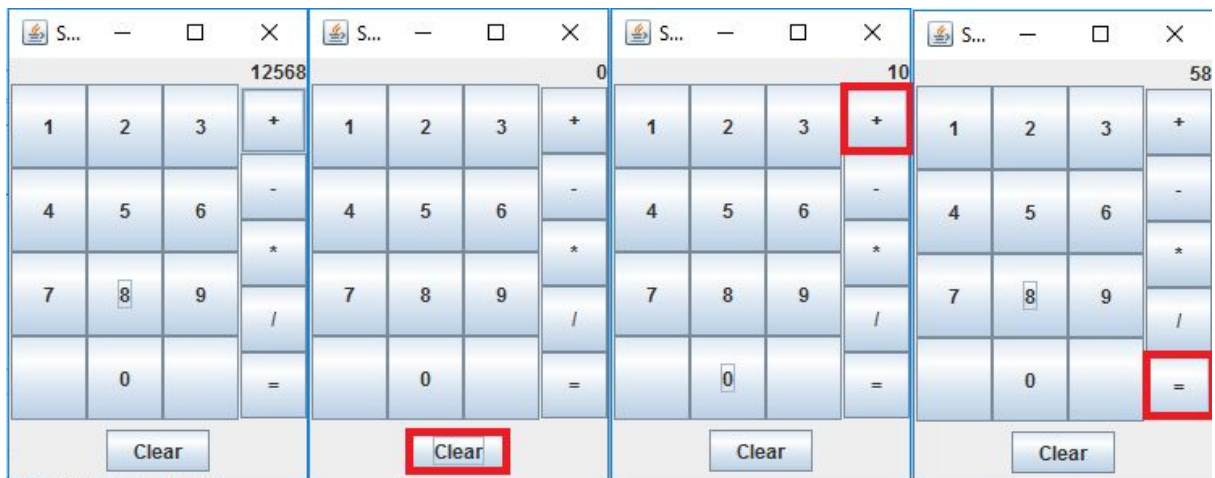
POO1

Aula Prática 10

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Execução:

Exemplo Soma:



# SimpleCalc.java:

```
package simple.calc;

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

public class SimpleCalc
{
    int registrador;
    String x;

    public SimpleCalc()
    {
        registrador = 0;
        JFrame janela = new JFrame("Simple Calc");
        janela.setSize(200, 300);

        JLabel visor = new JLabel("0");
        visor.setHorizontalAlignment(JLabel.RIGHT);

        JPanel painel1 = new JPanel(new GridLayout(4,3));
        JPanel painel2 = new JPanel(new GridLayout(5,1));
        JPanel painel3 = new JPanel();

        JButton clear = new JButton("Clear");
        JButton igual = new JButton("=");
        painel3.add(clear);

        String[] numeros = {"1","2","3","4","5","6","7","8","9",null,"0",null};
        String[] op = {"+","-","*","/"};

        janela.add(visor, BorderLayout.NORTH);
        janela.add(painel1, BorderLayout.CENTER);
        janela.add(painel2, BorderLayout.EAST);
        janela.add(painel3, BorderLayout.SOUTH);

        ActionListener trataTecla = new ActionListener()
        {
```

```

        public void actionPerformed(ActionEvent e)
        {
            JButton botaoClicado = (JButton)e.getSource();
            visor.setText("" + Integer.parseInt(visor.getText()+
botaoClicado.getText()));
        }

        ActionListener trataTecla2 = new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                JButton botaoClicado = (JButton)e.getSource();
                x = botaoClicado.getText();
                registrador = Integer.parseInt(visor.getText());
                visor.setText("0");
            }
        };

        for(int i=0; i<numeros.length; i++)
        {
            ((JButton)painel1.add(new
JButton(numeros[i])).addActionListener(trataTecla);
        }
        for(int j=0; j<op.length; j++)
        {
            ((JButton)painel2.add(new JButton(op[j])).addActionListener(trataTecla2);
        }
        painel2.add(igual);

        igual.addActionListener (new ActionListener()
        {
            public void actionPerformed(ActionEvent e)
            {
                if("+".equals(x))
                {
                    registrador = registrador + Integer.parseInt(visor.getText());
                    visor.setText("" + registrador);
                }else if("-".equals(x))
                {
                    registrador = registrador - Integer.parseInt(visor.getText());
                    visor.setText("" + registrador);
                }else if(".".equals(x))
                {

```

```

        registrador = registrador * Integer.parseInt(visor.getText());
        visor.setText("" + registrador);
    }else if("/".equals(x))
    {
        if(Integer.parseInt(visor.getText()) == 0)
        {
            visor.setText("0");
        }else
        {
            registrador = registrador / Integer.parseInt(visor.getText());
            visor.setText("" + registrador);
        }
    }
    x = "";
}
});
clear.addActionListener (new ActionListener()
{
    public void actionPerformed (ActionEvent e)
    {
        visor.setText("0");
    }
});
janela.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
janela.setVisible(true);
}
public static void main(String[] args)
{
    new SimpleCalc();
}
}

```