```java
import java.awt.BorderLayout;
import java.awt.GridLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.JTextField;

public class DemoCalculator extends JFrame implements ActionListener {

	JPanel jp1, jp2;
	JTextField jtf;
	JButton[] btns;
	String num1, num2, operator;
	int res;

	public DemoCalculator() {

		super("My Calculator");
		jp1 = new JPanel();
		jtf = new JTextField(20);
		jp1.add(jtf);
		add(jp1, BorderLayout.NORTH);
		jp2 = new JPanel();
		jp2.setLayout(new GridLayout(4, 4));
		btns = new JButton[16];

		for (int i = 0; i < 10; i++) {
			btns[i] = new JButton("" + i);
			jp2.add(btns[i]);
			btns[i].addActionListener(this);
		}

		btns[10] = new JButton("+");
		btns[11] = new JButton("-");
		btns[12] = new JButton("*");
		btns[13] = new JButton("/");
		btns[14] = new JButton("=");
		btns[15] = new JButton("c");

		for (int i = 10; i < 16; i++) {
			jp2.add(btns[i]);
			btns[i].addActionListener(this);
		}

		add(jp2);
		setLocation(100, 100);
		setSize(250, 300);
		setVisible(true);
		setDefaultCloseOperation(EXIT_ON_CLOSE);
	}
```

```
public static void main(String[] args) {
	new DemoCalculator();

}

@Override
public void actionPerformed(ActionEvent e) {
	// TODO Auto-generated method stub
	String cap = e.getActionCommand();
	if (cap.equals("1"))
		jtf.setText(jtf.getText() + "1");

	else if (cap.equals("2"))
		jtf.setText(jtf.getText() + "2");

	else if (cap.equals("3"))
		jtf.setText(jtf.getText() + "3");

	else if (cap.equals("4"))
		jtf.setText(jtf.getText() + "4");

	else if (cap.equals("5"))
		jtf.setText(jtf.getText() + "5");

	else if (cap.equals("6"))
		jtf.setText(jtf.getText() + "6");

	else if (cap.equals("7"))
		jtf.setText(jtf.getText() + "7");

	else if (cap.equals("8"))
		jtf.setText(jtf.getText() + "8");

	else if (cap.equals("9"))
		jtf.setText(jtf.getText() + "9");

	else if (cap.equals("0"))
		jtf.setText(jtf.getText() + "0");

	else if (cap.equals("c"))
		jtf.setText("0");

	else if (cap.equals("+")) {
		num1 = jtf.getText();
		operator = "+";
		jtf.setText("");
	}
```

```
            else if (cap.equals("-")) {
                  num1 = jtf.getText();
                  operator = "-";
                  jtf.setText("");
            }

            else if (cap.equals("*")) {
                  num1 = jtf.getText();
                  operator = "*";
                  jtf.setText("");
            }

            else if (cap.equals("/")) {
                  num1 = jtf.getText();
                  operator = "/";
                  jtf.setText("");
            }

            else if (cap.equals("=")) {
                  num2 = jtf.getText();
                  // operator="=";

                        if (operator.equals("+")) {
                        // num2=get
                        res = Integer.parseInt(num1) +
Integer.parseInt(num2);
                  }

                  if (operator.equals("-")) {
                        // num2=get
                        res = Integer.parseInt(num1) -
Integer.parseInt(num2);
                  }

                  if (operator.equals("*")) {
                        // num2=get
                        res = Integer.parseInt(num1) *
Integer.parseInt(num2);
                  }

                  if (operator.equals("/")) {
                        // num2=get
                        res = Integer.parseInt(num1) /
Integer.parseInt(num2);
                  }
                  jtf.setText("" + res);
            }
      }
}

// Calculator software in core java
```