**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

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