

利用java做一个简单的计算器 PDF转换可能丢失图片或格式，
建议阅读原文

https://www.100test.com/kao_ti2020/145/2021_2022__E5_88_A9_E7_94_A8java_c104_145580.htm 两个类。还只是完成 +、-、
×、÷ 运算而已。GUI只是用了AWT，很简单，相信一看就能懂了。 Calculator.java以下是引用片段：
public class Calculator{ private String result = "0". private int op = 0,add = 1,sub = 2,mul = 3,div = 4. private double stringToDouble(String x){ double y = Double.parseDouble(x). return y. } private void operate(String x){ double x1 = stringToDouble(x). double y = stringToDouble(result). switch (op){ case 0: result = x. break. case 1: result = String.valueOf(y x1). break. case 2: result = String.valueOf(y-x1). break. case 3: result = String.valueOf(y*x1). break. case 4: if(x1!=0){ result = String.valueOf(y/x1). }else{ result = "The divisor cant be zero!". } break. } } public String opAdd(String x){ operate(x). op = add. return result. } public String opSubtract(String x){ operate(x). op = sub. return result. } public String opMultiply(String x){ operate(x). op = mul. return result. } public String opDivide(String x){ operate(x). op = div. return result. } public String opEquals(String x){ operate(x). op = 0. return result. } public void opClean(){ op = 0. result = "0". } } 第二个

CalculatorGUI.java以下是引用片段：
import java.awt.*. import java.awt.event.*. import java.util.EventObject. public class CalculatorGUI{ private Frame f. private Panel p1,p2. private Button b0,b1,b2,b3,b4,b5,b6,b7,b8,b9. private Button bPoint,bAdd,bDec,bMul,bDiv,bCal. private TextField tf. private

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String s,op. private Calculator cal = new Calculator(). private
boolean ifOp. public CalculatorGUI(){ f = new
Frame("Calculator"). p1 = new Panel(). p2 = new Panel(). b0 = new
Button("0"). b1 = new Button("1"). b2 = new Button("2"). b3 = new
Button("3"). b4 = new Button("4"). b5 = new Button("5"). b6 = new
Button("6"). b7 = new Button("7"). b8 = new Button("8"). b9 = new
Button("9"). bPoint = new Button("."). bAdd = new Button(" ").
bDec = new Button("-"). bMul = new Button("*"). bDiv = new
Button("/"). bCal = new Button("="). tf = new TextField(25).
tf.setEditable(false). } public void launchFrame(){ f.setSize(220,160).
f.setResizable(false). f.addWindowListener(new
myWindowListener()). p1.setLayout(new
FlowLayout(FlowLayout.CENTER)). p1.add(tf).
f.add(p1, BorderLayout.NORTH). p2.setLayout(new
GridLayout(4,4)). b0.addActionListener(new
setLabelText_ActionListener()). b1.addActionListener(new
setLabelText_ActionListener()). b2.addActionListener(new
setLabelText_ActionListener()). b3.addActionListener(new
setLabelText_ActionListener()). b4.addActionListener(new
setLabelText_ActionListener()). b5.addActionListener(new
setLabelText_ActionListener()). b6.addActionListener(new
setLabelText_ActionListener()). b7.addActionListener(new
setLabelText_ActionListener()). b8.addActionListener(new
setLabelText_ActionListener()). b9.addActionListener(new
setLabelText_ActionListener()). bPoint.addActionListener(new
setLabelText_ActionListener()). bAdd.addActionListener(new
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setOperator_ActionListener()). bDec.addActionListener(new
setOperator_ActionListener()). bMul.addActionListener(new
setOperator_ActionListener()). bDiv.addActionListener(new
setOperator_ActionListener()). bCal.addActionListener(new
setOperator_ActionListener()). p2.add(b7). p2.add(b8).
p2.add(b9). p2.add(bAdd). p2.add(b4). p2.add(b5). p2.add(b6).
p2.add(bDec). p2.add(b1). p2.add(b2). p2.add(b3). p2.add(bMul).
p2.add(b0). p2.add(bPoint). p2.add(bCal). p2.add(bDiv).
f.add(p2, BorderLayout.SOUTH). f.setVisible(true). } public void
setTextFieldText_Temp(){ if
(tf.getText().length()tf.setText(tf.getText() s). }else{
tf.setText((tf.getText() s).substring(0,15)). } } public void
setTextFieldText(){ if(ifOp){ ifOp = false. tf.setText("").
setTextFieldText_Temp(). }else{ setTextFieldText_Temp(). } }
public static void main(String[] args){ CalculatorGUI calculator =
new CalculatorGUI(). calculator.launchFrame(). } class
myWindowListener extends WindowAdapter{ public void
windowClosing(WindowEvent e){ System.exit(0). } } class
setLabelText_ActionListener implements ActionListener{ public
void actionPerformed(ActionEvent e){ Button tempB =
(Button)e.getSource(). s = tempB.getLabel(). setTextFieldText(). } }
class setOperator_ActionListener implements ActionListener{ public
void actionPerformed(ActionEvent e){ Button tempB =
(Button)e.getSource(). op = tempB.getLabel(). if(op.equals(" ")){
tf.setText(cal.opAdd(tf.getText())). ifOp = true. }else
if(op.equals("-")){ tf.setText(cal.opSubtract(tf.getText())). ifOp =

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true. }else if(op.equals("*")){  
tf.setText(cal.opMultiply(tf.getText())). ifOp = true. }else  
if(op.equals("/")){ tf.setText(cal.opDivide(tf.getText())). ifOp =  
true. }else if(op.equals("=")){ tf.setText(cal.opEquals(tf.getText())).  
ifOp = true. } } } } 100Test 下载频道开通，各类考试题目直接下  
载。详细请访问 www.100test.com
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