import java.text.DecimalFormat;

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

/\*\*

\*

\* @author songhwee1

\*/

public class Cal extends javax.swing.JFrame {

/\*\*

\* Creates new form Cal

\*/

public Cal() {

initComponents();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

buttonGroup1 = new javax.swing.ButtonGroup();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

btn7 = new javax.swing.JButton();

btn8 = new javax.swing.JButton();

btn9 = new javax.swing.JButton();

btn\_div = new javax.swing.JButton();

btn\_sqrt = new javax.swing.JButton();

btn4 = new javax.swing.JButton();

btn5 = new javax.swing.JButton();

btn6 = new javax.swing.JButton();

btn\_mul = new javax.swing.JButton();

btn\_per = new javax.swing.JButton();

btn1 = new javax.swing.JButton();

btn2 = new javax.swing.JButton();

btn3 = new javax.swing.JButton();

btn\_sub = new javax.swing.JButton();

btn\_frac = new javax.swing.JButton();

btn0 = new javax.swing.JButton();

btn\_plma = new javax.swing.JButton();

btn\_dot = new javax.swing.JButton();

btn\_plus = new javax.swing.JButton();

btn\_eq = new javax.swing.JButton();

txtScreen = new javax.swing.JTextField();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jButton1.setText("Backspace");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton2.setText("CE");

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

jButton3.setText("C");

jButton3.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton3ActionPerformed(evt);

}

});

btn7.setText("7");

btn7.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn7ActionPerformed(evt);

}

});

btn8.setText("8");

btn8.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn8ActionPerformed(evt);

}

});

btn9.setText("9");

btn9.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn9ActionPerformed(evt);

}

});

btn\_div.setText("/");

btn\_div.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn\_divActionPerformed(evt);

}

});

btn\_sqrt.setText("sqrt");

btn\_sqrt.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn\_sqrtActionPerformed(evt);

}

});

btn4.setText("4");

btn4.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn4ActionPerformed(evt);

}

});

btn5.setText("5");

btn5.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn5ActionPerformed(evt);

}

});

btn6.setText("6");

btn6.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn6ActionPerformed(evt);

}

});

btn\_mul.setText("\*");

btn\_mul.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn\_mulActionPerformed(evt);

}

});

btn\_per.setText("%");

btn\_per.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn\_perActionPerformed(evt);

}

});

btn1.setText("1");

btn1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn1ActionPerformed(evt);

}

});

btn2.setText("2");

btn2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn2ActionPerformed(evt);

}

});

btn3.setText("3");

btn3.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn3ActionPerformed(evt);

}

});

btn\_sub.setText("-");

btn\_sub.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn\_subActionPerformed(evt);

}

});

btn\_frac.setText("1/x");

btn\_frac.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn\_fracActionPerformed(evt);

}

});

btn0.setText("0");

btn0.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn0ActionPerformed(evt);

}

});

btn\_plma.setText("+/-");

btn\_plma.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn\_plmaActionPerformed(evt);

}

});

btn\_dot.setText(".");

btn\_dot.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn\_dotActionPerformed(evt);

}

});

btn\_plus.setText("+");

btn\_plus.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn\_plusActionPerformed(evt);

}

});

btn\_eq.setText("=");

btn\_eq.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn\_eqActionPerformed(evt);

}

});

txtScreen.setHorizontalAlignment(javax.swing.JTextField.RIGHT);

txtScreen.setText("0");

txtScreen.setEnabled(false);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 109, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 93, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 93, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addComponent(btn7, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(btn8, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(btn9, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(btn\_div, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(6, 6, 6)

.addComponent(btn\_sqrt, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addComponent(btn4, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(btn5, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(btn6, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(btn\_mul, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(6, 6, 6)

.addComponent(btn\_per, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addComponent(btn1, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(btn2, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(btn3, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(btn\_sub, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(6, 6, 6)

.addComponent(btn\_frac, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addComponent(btn0, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(btn\_plma, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(btn\_dot, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(btn\_plus, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(6, 6, 6)

.addComponent(btn\_eq, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(0, 0, Short.MAX\_VALUE))

.addComponent(txtScreen))

.addContainerGap())

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(txtScreen, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(20, 20, 20)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton1)

.addComponent(jButton2)

.addComponent(jButton3))

.addGap(13, 13, 13)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btn7)

.addComponent(btn8)

.addComponent(btn9)

.addComponent(btn\_div)

.addComponent(btn\_sqrt))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btn4)

.addComponent(btn5)

.addComponent(btn6)

.addComponent(btn\_mul)

.addComponent(btn\_per))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btn1)

.addComponent(btn2)

.addComponent(btn3)

.addComponent(btn\_sub)

.addComponent(btn\_frac))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(btn0)

.addComponent(btn\_plma)

.addComponent(btn\_dot)

.addComponent(btn\_plus)

.addComponent(btn\_eq))

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void btn1ActionPerformed(java.awt.event.ActionEvent evt) {

input\_screen("1");

}

private void btn0ActionPerformed(java.awt.event.ActionEvent evt) {

if(txtScreen.getText().equals("0")){ // 0일 경우 0을 더 찍는 것을 방지

return;

}

input\_screen("0");

}

private void btn2ActionPerformed(java.awt.event.ActionEvent evt) {

input\_screen("2");

}

private void btn3ActionPerformed(java.awt.event.ActionEvent evt) {

input\_screen("3");

}

private void btn4ActionPerformed(java.awt.event.ActionEvent evt) {

input\_screen("4");

}

private void btn5ActionPerformed(java.awt.event.ActionEvent evt) {

input\_screen("5");

}

private void btn6ActionPerformed(java.awt.event.ActionEvent evt) {

input\_screen("6");

}

private void btn7ActionPerformed(java.awt.event.ActionEvent evt) {

input\_screen("7");

}

private void btn8ActionPerformed(java.awt.event.ActionEvent evt) {

input\_screen("8");

}

private void btn9ActionPerformed(java.awt.event.ActionEvent evt) {

input\_screen("9");

}

private void btn\_plusActionPerformed(java.awt.event.ActionEvent evt) {

currentNum = Double.parseDouble(txtScreen.getText());

isInit=true;

calNum("+");

txtScreen.setText(df.format(resultNum));

}

private void btn\_eqActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

currentNum = Double.parseDouble(txtScreen.getText());

isInit=true;

calNum("=");

txtScreen.setText(df.format(resultNum));

resultNum = 0;

}

private void btn\_subActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

currentNum = Double.parseDouble(txtScreen.getText());

isInit=true;

calNum("-");

txtScreen.setText(df.format(resultNum));

}

private void btn\_mulActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

currentNum = Double.parseDouble(txtScreen.getText());

isInit=true;

calNum("\*");

txtScreen.setText(df.format(resultNum));

}

private void btn\_divActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

currentNum = Double.parseDouble(txtScreen.getText());

isInit=true;

calNum("/");

txtScreen.setText(df.format(resultNum));

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

currentNum = 0;

txtScreen.setText("0");

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

currentNum = 0;

resultNum = 0;

txtScreen.setText("0");

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

String str1 = txtScreen.getText();

str1 = str1.substring(0, str1.length() - 1); //substring함수를 이용해 첫글자부터 마지막 전글자까지 자름.

if(str1.equals("")){ //자른 글자가 공백이 될경우 0으로 만듬.

txtScreen.setText("0");

}else{

txtScreen.setText(str1);

}

}

private void btn\_fracActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

String str1 = txtScreen.getText();

double num = Double.parseDouble(str1);

double dob = 1.0 / num;

txtScreen.setText(df.format(dob));

}

private void btn\_dotActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

if(isFloat){ // 점을 연속적으로 찍는것을 방지

return;

}

String str = txtScreen.getText() + ".";

txtScreen.setText(str);

isFloat = true; //한번 점을 찍었는데 또 찍히는 것을 방지

}

private void btn\_plmaActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

String str = txtScreen.getText();

double num = -Double.parseDouble(str);

txtScreen.setText(df.format(num));

}

private void btn\_sqrtActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

String str = txtScreen.getText();

double num = Math.sqrt(Double.parseDouble(str));

txtScreen.setText(df.format(num));

}

private void btn\_perActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

double per = Double.parseDouble(txtScreen.getText()) / 100;

double num = currentNum \* per;

txtScreen.setText(df.format(num));

}

private void btnMSActionPerformed(java.awt.event.ActionEvent evt) {

memoryNum = Double.parseDouble(jTextField1.getText());

}

private void btnMPlusActionPerformed(java.awt.event.ActionEvent evt) {

memoryNum = Double.parseDouble(jTextField1.getText());

if (memoryNum < 0) {

memory \*= -1;

}

}

private void btnMCActionPerformed(java.awt.event.ActionEvent evt) {

memoryNum = 0;

}

private void btnMRActionPerformed(java.awt.event.ActionEvent evt) {

jTextField1.setText(Double.toString(memoryNum));

}

DecimalFormat df = new DecimalFormat("#.#####"); // 숫자 형식 포맷

private double resultNum = 0; //결과값을 저장할 전역변수

private double currentNum = 0; //현재값을 저장할 전역변수

private Boolean isInit = false; //초기화 할 것인지를 결정하는 변수 예를들어 연산뒤에는 txtScreen의 값을 초기화해서 보여줘야함.

private String currentOper = ""; // 현재 연산자를 저장할 변수

private Boolean isFloat = false; // 현재 . 을 찍었는지 안찍었는지 알 수 있게하는 변수

private double memoryNum = 0; //메모리

private void input\_screen(String num){

if(isInit){ //초기화 여부가 트루이면 텍스트를 0으로 일단 초기화

txtScreen.setText("0");

isInit=false;

}

if(txtScreen.getText().equals("0")){ // 초기값 0에서 0을 더 누를경우 0이 계속 입력되는 것을 방지

txtScreen.setText(num);

}else{

String str = txtScreen.getText();

txtScreen.setText(str + num);

}

}

private void calNum(String oper){ //실질적인 연산을 담당하는 함수

System.out.println(oper);

switch (currentOper) { // currentOper에 들어있는 연산자를 통해 연산결정

case "+" :

resultNum += currentNum;

currentOper = oper;

break;

case "-" :

resultNum -= currentNum;

currentOper = oper;

break;

case "\*" :

resultNum \*= currentNum;

currentOper = oper;

break;

case "/" :

resultNum /= currentNum;

currentOper = oper;

break;

default :

resultNum = currentNum;

currentOper = oper;

}

if(oper.equals("=")){ // 입력된 연산자가 등호일 경우 현재 연산자에 공백을 저장. 다음 계산을 하기위해서임.

currentOper = "";

}

isFloat = false; // 연산이 끝난 뒤에는 점의 여부 체크해제

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Cal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Cal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Cal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Cal.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Cal().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton btn0;

private javax.swing.JButton btn1;

private javax.swing.JButton btn2;

private javax.swing.JButton btn3;

private javax.swing.JButton btn4;

private javax.swing.JButton btn5;

private javax.swing.JButton btn6;

private javax.swing.JButton btn7;

private javax.swing.JButton btn8;

private javax.swing.JButton btn9;

private javax.swing.JButton btn\_div;

private javax.swing.JButton btn\_dot;

private javax.swing.JButton btn\_eq;

private javax.swing.JButton btn\_frac;

private javax.swing.JButton btn\_mul;

private javax.swing.JButton btn\_per;

private javax.swing.JButton btn\_plma;

private javax.swing.JButton btn\_plus;

private javax.swing.JButton btn\_sqrt;

private javax.swing.JButton btn\_sub;

private javax.swing.ButtonGroup buttonGroup1;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JTextField txtScreen;

// End of variables declaration

}