package rechner;

import java.awt.\*;

import java.awt.event.\*;

import javax.swing.\*;

import javax.swing.event.\*;

public class Calculator extends JFrame implements CaretListener, ActionListener {

 private double diameter, freq; //komponente folgen noch

 JTextField jNumberField1; // Textfelder 2-15 folgen noch

 JButton jButton1; //btn2-7 folgen noch

 public Calculator()

 {

 setPreferredSize(new Dimension(1360, 700));

 setTitle("Calculator Figure of Merit");

 setLayout(new GridBagLayout());

 GridBagConstraints c = new GridBagConstraints();

 c.fill = GridBagConstraints.BOTH;

 c.insets = new Insets(10, 1, 10, 3);

 jNumberField1 = new JTextField();

 jNumberField1.addCaretListener(this);

 jNumberField1.addActionListener(this);

 c.gridy = 2;

 c.gridx = 1;

 add(jNumberField1, c);

 Font schrift1 = new Font("Arial", Font.BOLD, 18);

//Textfelder folgen noch

 JLabel jLabel1 = new JLabel("Gain");

 jLabel1.setFont(schrift1);

 jLabel1.setHorizontalAlignment(SwingConstants.CENTER);

 c.gridy = 1;

 c.gridx = 0;

 c.gridwidth = 3;

 add(jLabel1, c);
//JLabels folgen noch

 jButton6 = new JButton("Clear");

 //jButton1.setMargin(new Insets(2, 2, 2, 2));

 jButton6.setEnabled(false);

 jButton6.addActionListener(this);

 c.gridy = 8;

 c.gridx = 8;

 add(jButton6, c);

 jButton7 = new JButton("Clear");

 jButton7.setEnabled(true);

 jButton7.addActionListener(this);

 c.gridy = 12;

 c.gridx = 9;

 add(jButton7, c);

 Diagramm diag = new Diagramm();

 c.gridy = 11;

 c.gridx = 1;

 c.weighty = 0.5;

 c.gridwidth = 9;

 add(diag, c);

 }

 public void actionPerformed(ActionEvent e)

 {

 Object o = e.getSource();

 if(o==jButton6){

 jNumberField15.setText("");

 jNumberField16.setText("");

 jNumberField19.setText("");

 }

 /\*if(o==jButton7) ############## soll das Diagramm leeren

 {

 Delete();

 }\*/

 if(o==jButton1 || o==jNumberField1 || o==jNumberField2 || o==jNumberField3 || o==jNumberField4 || o==jNumberField5 ) {

 }

 //Loss

 diameter = Double.parseDouble(jNumberField1.getText());

 freq = Double.parseDouble(jNumberField2.getText());

 surfacesub = -0.05;

 panel = -0.02;

 // einige Formeln folgen noch

 gain = Math.round(gain \* 100)/100.0;

 jNumberField14.setText("" + gain);

 }

 if(o==jButton2 || o==jNumberField7 || o==jNumberField10)

 {

 // Noise

 pattern = Double.parseDouble(jNumberField8.getText());

 templna = Math.round(templna\*100)/100.0; //einige Formeln folgen

 jNumberField13.setText("" + templna );

 }

 if(o==jButton3 || o==jNumberField15 || o==jNumberField16)

 {

 lnanoise = Double.parseDouble(jNumberField16.getText());

 gt = Math.round(gt\*100)/100.0;

 jNumberField19.setText("" + gt);

 }

 }

public static void main(String[] args)

{

 Calculator ac = new Calculator();

 ac.setVisible(true);

 ac.setDefaultCloseOperation(WindowConstants.EXIT\_ON\_CLOSE);

 ac.pack();

 }

}