Week 9

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.\*;

class SwingDemo{

SwingDemo(){

// create jframe container

JFrame jfrm = new JFrame("Divider App");

jfrm.setSize(275, 150);

jfrm.setLayout(new FlowLayout());

// to terminate on close

jfrm.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

// text label

JLabel jlab = new JLabel("Enter the divider and divident:");

// add text field for both numbers

JTextField ajtf = new JTextField(8);

JTextField bjtf = new JTextField(8);

// calc button

JButton button = new JButton("Calculate");

// labels

JLabel err = new JLabel();

JLabel alab = new JLabel();

JLabel blab = new JLabel();

JLabel anslab = new JLabel();

// add in order :)

jfrm.add(err); // to display error bois

jfrm.add(jlab);

jfrm.add(ajtf);

jfrm.add(bjtf);

jfrm.add(button);

jfrm.add(alab);

jfrm.add(blab);

jfrm.add(anslab);

ActionListener l = new ActionListener() {

public void actionPerformed(ActionEvent evt) {

System.out.println("Action event from a text field");

}

};

ajtf.addActionListener(l);

bjtf.addActionListener(l);

button.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent evt) {

try{

int a = Integer.parseInt(ajtf.getText());

int b = Integer.parseInt(bjtf.getText());

int ans = a/b;

alab.setText("\nA = " + a);

blab.setText("\nB = " + b);

anslab.setText("\nAns = "+ ans);

}

catch(NumberFormatException e){

alab.setText("");

blab.setText("");

anslab.setText("");

err.setText("Enter Only Integers!");

}

catch(ArithmeticException e){

alab.setText("");

blab.setText("");

anslab.setText("");

err.setText("B should be NON zero!");

}

}

});

// display frame

jfrm.setVisible(true);

}

public static void main(String args[]){

System.out.println("Ruqaiyya Mahreen 1BM23EE044");

// create frame on event dispatching thread

SwingUtilities.invokeLater(new Runnable(){

public void run(){

new SwingDemo();

}

});

}

}

