import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import javax.swing.JButton;

import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.JPanel;

import javax.swing.JTextField;

public class BankAccount extends JFrame

{

private static final int FRAME\_WIDTH = 400;

private static final int FRAME\_HEIGHT = 250;

private static final double INITIAL\_BALANCE = 1000;

double result;

private JLabel initiallabel;

private JLabel depositlabel;

private JLabel withdrawlabel;

private JTextField depositfield;

private JTextField withdrawfield;

private JButton depositbutton;

private JButton withdrawbutton;

private JLabel resultlabel;

private JPanel panel;

private BankAccount account;

public InvestmentFrame()

{

account = new BankAccount(INITIAL\_BALANCE);

createTextField();

createButton();

createPanel();

setSize(FRAME\_WIDTH, FRAME\_HEIGHT);

}

private void createTextField()

{

final int FIELD\_WIDTH = 10;

initiallabel = new JLabel("Current Balance $" + INITIAL\_BALANCE);

depositlabel = new JLabel("Deposit: ");

depositfield = new JTextField(FIELD\_WIDTH);

withdrawlabel = new JLabel("Withdraw: ");

withdrawfield = new JTextField(FIELD\_WIDTH);

resultlabel = new JLabel("New Balance: $" + result);

}

private void createButton()

{

depositbutton = new JButton("Deposit");

class DepositListener implements ActionListener

{

public void actionPerformed(ActionEvent event)

{

double dp = Double.parseDouble(depositfield.getText());

double dpamount = account.getBalance() + dp;

account.deposit(dpamount);

result = dpamount;

resultlabel = new JLabel("New Balance: $" + result);

}

}

ActionListener d = new DepositListener();

depositbutton.addActionListener(d);

withdrawbutton = new JButton("Withdraw");

class WithdrawListener implements ActionListener

{

public void actionPerformed(ActionEvent event)

{

double wd = Double.parseDouble(depositfield.getText());

double wdamount = account.getBalance() - wd;

account.withdraw(wdamount);

result = wdamount;

resultlabel = new JLabel("New Balance: $" + result);

}

}

ActionListener w = new WithdrawListener();

withdrawbutton.addActionListener(w);

}

private void createPanel()

{

panel = new JPanel();

panel.add(initiallabel);

panel.add(depositlabel);

panel.add(depositfield);

panel.add(depositbutton);

panel.add(resultlabel);

panel.add(withdrawlabel);

panel.add(withdrawfield);

panel.add(withdrawbutton);

panel.add(resultlabel);

add(panel);

}

}