

/\* Write a description of class Lab6 here.

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import java.awt.\*;

import java.awt.event.\*;

import javax.swing.\*;

public class Lab6 extends JPanel implements ActionListener {

private JFrame frame;

private JLabel efficLbl,mileage1Lbl,mileage2Lbl,gallonsLbl;

private JTextField efficBox,mileage1Box,mileage2Box,gallonsBox;

private JButton go;

public Lab6(){

frame = new JFrame("Lab6");

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

frame.setContentPane(this);

this.init();

frame.pack();

frame.setVisible(true);

}

public void init(){

this.setPreferredSize(new Dimension(270,185));

this.setBackground(Color.BLUE);

this.setLayout(null);

mileage1Lbl = new JLabel("Mileage 1");

mileage1Box = new JTextField();

mileage1Lbl.setBounds(10,10,120,25);

mileage1Box.setBounds(140,10,120,25);

this.add(mileage1Lbl); this.add(mileage1Box);

mileage2Lbl = new JLabel("Mileage 2");

mileage2Box = new JTextField();

mileage2Lbl.setBounds(10,45,120,25);

mileage2Box.setBounds(140, 45, 120, 25);

this.add(mileage2Lbl); this.add(mileage2Box);

gallonsLbl = new JLabel("Gallons");

gallonsBox = new JTextField();

gallonsLbl.setBounds(10,80, 120, 25);

gallonsBox.setBounds(140,80, 120,25);

this.add(gallonsLbl); this.add(gallonsBox);

efficLbl = new JLabel("Fuel Efficiency");

efficBox = new JTextField();

efficBox.setEditable(false);

efficLbl.setBounds(10, 115, 120, 25);

efficBox.setBounds(140, 115, 120, 25);

this.add(efficLbl); this.add(efficBox);

go = new JButton("Compute");

go.addActionListener(this);

go.setBounds(75, 150, 120, 25);

this.add(go);

}

public void actionPerformed(ActionEvent e){

double mileage1,mileage2,gallons,efficiency;

String result;

try {

mileage1 = Double.parseDouble(mileage1Box.getText());

mileage2 = Double.parseDouble(mileage2Box.getText());

gallons = Double.parseDouble(gallonsBox.getText());

efficiency = (mileage2 - mileage1)/gallons;

result = String.format("%.1f", efficiency);

efficBox.setText(result);

}

catch(NumberFormatException exc){

efficBox.setText("Number error");

}

catch(ArithmeticException exc){

efficBox.setText("Can't calculate by zero");

}

}

public static void main(String[] args){

new Lab6();

}

}