Chương trình giải phương trình bậc nhất ax+b=0 có giao diện và xử lí sự kiện

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· 1 // Chuong trinh giai phuong trinh bac nhat ax+b=0
 2 import java.awt.*;
 3 import java.awt.event.*;
 4 import javax.swing.*;
 5 class ptbn frame extends Frame implements ActionListener
 6 1
       Label 1b1, 1b2, 1b3, 1b;
       TextField txta, txtb, txtkq;
 9
       Button tinh, reset, thoat;
       Panel pn,pn1,pn2,pn3;
    public void GUI()
      1
           1b=new Label (" GIAI PHUONG TRINH BAC NHAT");
14
           1b1=new Label ("Nhap a:");
           1b2=new Label ("Nhap b:");
           1b3=new Label ("Ket qua :");
           txta=new TextField();
           txtb=new TextField();
           txtkq=new TextField();
          tinh=new Button ("Tinh");
23
          reset=new Button ("Reset");
24
           thoat=new Button ("Thoat");
           tinh.addActionListener(this);
           reset.addActionListener(this);
           thoat.addActionListener(this);
2.9
           pn=new Panel ( new GridLayout (3,1));
           pn1=new Panel (new FlowLayout ());
           pn2=new Panel (new GridLayout (3,2));
           pn3⇒new Panel (new GridLayout (1, 3));
34
           pn1.add(lb);
           pn2.add(lb1);
38
           pn2.add(txta);
           pn2.add(1b2);
          pn2.add(txtb);
41
           pn2.add(1b3);
          pn2.add(txtkg);
          pn3.add(tinh);
45
          pn3.add(reset);
46
          pn3.add(thoat);
4.7
          pn.add(pn1);
49
          pn.add(pn2);
           pn.add(pn3);
           add(pn);// add vao frame
           setSize(400,300);// thiet lap kich thuoc
           show();// hien thi
54
55 public void actionPerformed(ActionEvent e)
      if (e.getSource()==tinh)
```

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59
     int a=Integer.parseInt(txta.getText());
     int b=Integer.parseInt(txtb.getText());
61
     if (a!=0) txtkq.setText(Float.toString((float)-b/a));
62
      else
63
          if(b==0) txtkq.setText("Phuong trinh co vo so nghiem");
64
                   txtkq.setText("Phuong trinh vo nghiem");
          else
65
66
     if (e.getSource()==reset)
67
69
        txta.setText("");
        txtb.setText("");
        txtkq.setText("");
74
     76
    // phuong thuc khoi tao Constructor
78
     public ptbn frame(String st)
79
     1
          super(st);
          GUI();
      public static void main(String[] args)
84
      new ptbn frame ("Giai phuong trinh bac 1");
```