IBM19CS167
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classmate
Date
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```
import java.awt.*;
import java.awt.event.*;

class MyDialog extends Dialog implements ActionListener
{
    Prog10 p;
    MyDialog(Frame parent, String title)
    {
        super(parent, title, false);
        setLayout(new FlowLayout());
        setSize(300,150);
        p=(Prog10)parent;
        Button b=new Button("OK");
        Label l=new Label("Errors: "+p.errors);
        add(l);
        add(b);
        b.addActionListener(this);
    }

    public void actionPerformed(ActionEvent ae)
    {
        dispose();
    }
}
```

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```
Public class Prg10 extends Frame implements ActionListener.
{
    TextField Num1, Num2;
    Button divide = new Button ("Divide");
    float res = 0;
    public String error = "";
    public Prg10()
    {
        setLayout(new FlowLayout());
        Num1 = new TextField(1);
        Num2 = new TextField(1);
        Label Num1L = new Label("Num1:", Label.RIGHT);
        Label Num2L = new Label("Num2:", Label.RIGHT);
        add(Num1L);
        add(Num1);
        add(Num2L);
        add(Num2);
        add(divide);
        divide.addActionListener(this);
        addWindowListener(new WinAdapter());
    }

public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource()==divide)
    {
        try
        {
            int n1 = Integer.parseInt(Num1.getText());
            int n2 = Integer.parseInt(Num2.getText());
            if(n2<=0)
```

```
{
    throw new ArithmeticException("Error");
}
  res = (float)n1/n2;
  repaint();
}
catch(NumberFormatException exception)
{
    System.out.println(exception);
    res = 0;
    error = "Entered number is not an Integer.";
    repaint();
}
catch(ArithmeticException exception)
{
    System.out.println(exception);
    res = 0;
    error = "You tried to divide by zero.";
    repaint();
}
if(res==0)
{
  System.out.println(this.error);
  MyDialog d = new MyDialog(this, "Error");
  d.setVisible(true);
}
}
}
```

```
public void paint(Graphics g)
{
    g.drawString("Result: " + String.valueOf(res), 20, 100);
}

public static void main(String[] args)
{
    Prog10 p = new Prog10();
    p.setSize(new Dimension(400,250));
    p.setTitle("Divide");
    p.setVisible(true);
}
}

class winAdapter extends WindowAdapter
{
    public void windowClosing(WindowEvent we)
    {
        System.exit(0);
    }
}
```