

Week 12

public

import java.awt.*;

import java.awt.event.*;

public class Prog1 extends JFrame implements ActionListener

TextField Num1, Num2;

Button divide = new Button("Divide");

float res = 0;

String error = " ";

public Prog1(){

setLayout(new FlowLayout());

Num1 = new TextField(1);

Num2 = new TextField(1);

Label ~~Num1L~~ Num1L = new Label("Num1: ", Label.RIGHT);

Label Num2L = new Label("Num2: ", Label.RIGHT);

add(Num1L);

add(Num1);

add(Num2L);

add(Num2);

add(divide);

```
divide .add ActionListener(this);  
add WindowListener (new WinAdapter());
```

```
}
```

```
public void actionPerformed (ActionEvent ae) {  
    if (ae.getSource() == divide) {  
        try {  
            int n1 = Integer.parseInt(Nom1.getText());  
            int n2 = Integer.parseInt(Nom2.getText());  
            res = (float) n1 / n2;
```

```
        } catch (NumberFormatException exception) {  
            res = 0;
```

```
            error = "Entered Number is not an  
integer";
```

```
        } catch (ArithmeticException exception) {  
            res = 0;
```

```
            error = "You tried to divide by zero.";
```

```
        }  
        repaint();
```

```
    }
```

```
}
```

```
public void paint (Graphics g) {
```

```
    g.drawString ("Result : " + String.valueOf(  
        20, 100);
```

```
    g.drawString ("Error : " + error, 20, 150);
```

```
}
```

```
public static void main (String [] args) {
```

```
    Prog1 P = new Prog1();
```

```
    P.setSize (new Dimension (400, 250));
```

```
    P.setTitle ("Divide");
```

```
    P.setVisible (true);
```

```
}
```

```
}
```

```
class WinAdapter extends WindowAdapter {
```

```
    public void windowClosing (WindowEvent  
        e) {  
        System.exit(0);
```

```
}
```

```
}
```