18/1/21

Lab 10

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Q→ WAP to perform division of two numbers in awt. Also display errors in dialog box

```
import java.awt.*;
import java.awt.event.*;
class div extends Dialog implements ActionListener {
    Series d;
    div(Frame parent, String title) {
        super(parent, title, false);
        d = (Series) parent;
        setLayout(new FlowLayout());
        setSize(500, 200);
        add(new Label(d.er));
        Button b;
        add(b = new Button("OK"));
        b.addActionListener(this);
    }
    public void actionPerformed(ActionEvent ae) {
        dispose();
    }
}
public class Series extends Frame implements
ActionListener {
    Textfield n1, n2, s;
    Button divide;
    String er = " ";
```

```
public series () {
    setLayout ( new FlowLayout ());
    Divide = new Button ("Divide");
    Label n1p = new Label ("Num1: ",
                    Label.Right);
    Label n2p = new Label ("Num2: ",
                    Label.Right);
    n1 = new Textfield(10);
    n2 = new Textfield (10);
    r = new Textfield (10);
    add (n1p);
    add (n1);
    add (n2p);
    add (n2);
    add (Divide);
    add (r);
    Divide.addActionListener (this);
    addWindowListener(new WindowAdapter () {
        public void windowClosing(WindowEvent we){
            System.exit(0); } });
}
public void actionPerformed (ActionEvent ae){
    int a=0, b=0, c=0, d=0;
    double ss = 0;
    try {
```

```
        a = Integer.parseInt(n1.getText());
        b = Integer.parseInt(n).getText());
    }
    catch (NumberFormatException e1) {
        er = "Caught : " + e1;
        div dv = new div(this, "Error");
        div.setVisible(true); }
    try {
        re = a/b; }
    catch (ArithmeticException e2) {
        er = "Caught : " + e2 + " as n2 = " + n2.getText();
        div di = new div(this, "Error");
        di.setVisible(true);
    }
    r.setText(" " + re);
}
public static void main(String args[]){
    Series appwin = new Series();
    appwin.setSize(new Dimension(800, 400));
    appwin.setTitle("Integer Division");
    appwin.setVisible(true);
}
}
```

O/P →

Num1 : 200 Num2 : 4 Divide Result : 50

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Algorithm →

1. Enter Num 1 & Num 2
2. Check if both numbers are integers & num2 ≠ 0
3. If errors display it in Dialog box
4. otherwise display the quotient in Result
5. Keep doing until user closes Frame
6. End.