LAB-10

```
import java.awt.*;
import java.awt.event.*;
public class Division extends Frame implements ActionListener {
public class DialogD extends Frame{
String msg;
DDialog myDialog;
public DialogD() {
myDialog = new DDialog(this, "New Dialog Box", msg);
}
}
String msg;
TextField num1, num2, res;
Label I1, I2, I3;
Button div;
public Division() {
setLayout(new FlowLayout());
l1 = new Label("Dividend",Label.RIGHT);
12 = new Label("Divisor", Label.RIGHT);
13 = new Label("Result", Label.RIGHT);
num1 = new TextField(10);
num2 = new TextField(10);
res = new TextField(10);
div = new Button("DIVIDE");
```

```
add(l1);
add(num1);
add(I2);
add(num2);
add(I3);
add(res);
add(div);
div.addActionListener(this);
addWindowListener(new MyWindowAdapter());
}
public void actionPerformed(ActionEvent ae) {
int num1 = 0, num2 = 0;
try {
num1 = Integer.parseInt(this.num1.getText());
num2 = Integer.parseInt(this.num2.getText());
double num3 =(double) num1 / num2;
res.setText(String.valueOf(num3));
msg = "Division Successful";
} catch (NumberFormatException e) {
System.out.println(e);
```

```
res.setText("");
msg = "NumberFormatException";
DDialog dd = new DDialog(this, "Dialog", msg);
dd.setVisible(true);
return;
}
try {
if(num2==0)
throw new ArithmeticException();
msg = "Can't be divided by Zero";
} catch (ArithmeticException e) {
System.out.println("Can't be divided by Zero" + e);
res.setText("");
msg = "Can't be divided by Zero";
DDialog dd = new DDialog(this, "Dialog", msg);
dd.setVisible(true);
return;
}
}
public void paint(Graphics g) {
g.drawString(msg, 80, 100);
}
public static void main(String[] args) {
```

```
Division appwin = new Division();
appwin.setSize(new Dimension(480,280));
appwin.setTitle("Division");
appwin.setVisible(true);
}
}
class MyWindowAdapter extends WindowAdapter {
public void windowClosing(WindowEvent we)
{
System.exit(0);
}
}
class DDialog extends Dialog {
DDialog(Frame parent, String title, String msg)
{
super(parent,title,false);
setLayout(new FlowLayout());
setSize(300,300);
add(new Label(msg));
Button b;
add(b = new Button("OK"));
b.addActionListener((ae)->dispose());
addWindowListener(new WindowAdapter() {
public void windowClosing(WindowEvent we)
dispose();
});
}
}
```

