

Lab 10:

```
import java.awt.*;  
import java.awt.event.*;  
import java.applet.*;  
import javax.swing.*;  
  
public class DivisionExample extends JFrame  
    implements ActionListener  
{  
    String msg;  
    TextField num1, num2, res;  
    Label l1, l2, l3;  
    Button div;  
    public DivisionExample()  
    {  
        setLayout(new FlowLayout());  
        l1 = new Label("Dividend");  
        l2 = new Label("Divisor");  
        l3 = new Label("Result");  
        num1 = new TextField(10);
```

num2 = new TextField(10);

res = new TextField(10);

div = new Button("Click");

add(l1);

add(num1);

add(l2);

add(num2);

add(res);

add(div);

div.addActionListener(this);

addWindowListener(new WindowAdapter()
{

public void windowClosing(WindowEvent we)
{

System.exit(0);

}

});

}


```
public void actionPerformed(ActionEvent ae)
```

```
{
```

```
    String arg = ae.getActionCommand();
```

```
    int num1 = 0, num2 = 0;
```

```
    if (arg.equals("Click"))
```

```
    {
```

```
        if (this.num1.getText().isEmpty() & this.num2.  
            getText().isEmpty())
```

```
        {
```

```
            msg = "Enter the valid numbers!";
```

```
            repaint();
```

```
        }
```

```
    else {
```

```
        try {
```

```
            num1 = Integer.parseInt(this.num1.getText());
```

```
            num2 = Integer.parseInt(this.num2.getText());
```

```
try  
{
```

```
    if (num2 == 0)
```

```
        int a = 12/0;
```

```
int num3 = num1/num2;
```

```
res.setText (String.valueOf(num3));
```

```
msg = "Operation successful!";
```

```
repaint();
```

```
} catch (ArithmeticException e)
```

```
{
```

```
    JOptionPane.showMessageDialog
```

```
        (null, "Arithmetic Exception");
```

```
    res.setText(" ");
```

```
    repaint();
```

```
}
```

```
}
```



```
catch (NumberFormatException ex)
```

```
{
```

```
    JOptionPane.showMessageDialog
```

```
        (null, "NumberFormatException");
```

```
    res.setText("");
```

```
    repaint();
```

```
}
```

```
}
```

```
}
```

```
}
```

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

```
{
```

```
    g.drawString(msg, 30, 70);
```

```
}
```

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

```
{
```

```
    DivisionExample appwin = new DivisionExample();
```

```
appwin.setSize(new Dimension(250, 150));
```

```
appwin.setTitle("Division Portal");
```

```
appwin.setVisible(true);
```

```
}
```

```
}
```