

Week 12Lab Program - 10

1) `import java.awt.*;`
`import java.awt.event.*;`

```
public class Prog1 extends Frame implements ActionListener {  
    TextField Num1, Num2;  
    Button divide = new Button("Divide");  
    float res = 0;  
    String error = " ";  
    public Prog1() {  
        setLayout(new FlowLayout());  
        Num1 = new TextField(10);  
        Num2 = new TextField(10);  
        Label result = new Label("Num1 : ", Label.RIGHT);  
        Label error = new Label("Num2 : ", Label.RIGHT);  
        add(Num1);  
        add(Num2);  
        add(Divide);  
        divide.addActionListener(this);  
        addWindowListener(new WindowAdapter());  
    }  
}
```

```
public void actionPerformed(ActionEvent ae) {  
    if (ae.getSource() == divide) {  
        try {  
            int n1 = Integer.parseInt(Num1.getText());  
            int n2 = Integer.parseInt(Num2.getText());  
            res = (float) n1 / n2;  
        } catch (NumberFormatException exception) {  
            res = 0;  
        }  
    }  
}
```



```
error = "Entered number is not an integer.";
```

```
try {  
    ArithmeticException exception;
```

```
    res = 0;
```

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

```
}
```

```
    repaint();
```

```
}
```

```
}
```

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

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

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

```
}
```

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

```
    Prog1 p = new Prog1();
```

```
    p.setSize (new Dimension (400, 400));
```

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

```
    p.setVisible (true);
```

```
}
```

```
}
```

```
class WinAdaptes extends WindowAdaptes {
```

```
    public void windowClosing (WindowEvent we) {
```

```
        System.exit (0);
```

```
}
```

```
}
```