Class Calculator

```
1
    * By Aryan K
2
     * Version 1.0
3
    * /
4
   import java.awt.*;
5
   import java.awt.event.*;
   import javax.swing.*;
   public class Calculator extends JFrame {
        JButton sub, div, mul, add;
        JTextField no1, no2;
10
        JLabel res, no3, no4;
11
12
            public Calculator()
            setLayout(new GridBagLayout());
13
            GridBagConstraints a = new GridBagConstraints();
14
15
            no1 = new JTextField(10);
16
            a.fill = GridBagConstraints.HORIZONTAL;
            a.gridx = 1;
18
            a.gridy = 1;
19
            a.gridwidth = 3;
20
            a.gridheight = 2;
21
22
            add(no1, a);
23
            no2 = new JTextField(10);
24
            a.fill = GridBagConstraints.HORIZONTAL;
25
            a.gridx = 1;
26
27
            a.gridy = 3;
            a.gridwidth = 4;
            a.gridheight = 2;
29
            add(no2, a);
30
31
32
            div = new JButton("÷");
            a.fill = GridBagConstraints.HORIZONTAL;
33
            a.gridx = 0;
34
            a.gridy = 5;
35
            a.gridwidth = 1;
36
37
            add(div, a);
38
            sub = new JButton("-");
            a.fill = GridBagConstraints.HORIZONTAL;
40
            a.gridx = 1;
42
            a.gridy = 5;
            a.gridwidth = 1;
43
            add(sub, a);
44
45
            mul = new JButton("x");
46
47
            a.fill = GridBagConstraints.HORIZONTAL;
            a.gridx = 2;
48
            a.gridy = 5;
49
```

```
a.gridwidth = 1;
50
            add(mul, a);
51
52
            add = new JButton("+");
            a.fill = GridBagConstraints.HORIZONTAL;
54
            a.gridx = 3;
            a.gridy = 5;
56
            a.gridwidth = 1;
57
58
            add(add, a);
59
            res = new JLabel("");
60
61
            a.fill = GridBagConstraints.HORIZONTAL;
            a.gridx = 0;
62
            a.gridy = 7;
63
            a.gridheight = 2;
64
            a.gridwidth = 4;
65
            add(res, a);
67
            no3 = new JLabel("1st");
            a.fill = GridBagConstraints.HORIZONTAL;
69
            a.gridx = 0;
70
71
            a.gridy = 1;
            a.gridheight = 2;
72
            add(no3, a);
73
74
            no4 = new JLabel("2nd");
75
76
            a.fill = GridBagConstraints.HORIZONTAL;
            a.gridx = 0;
77
            a.gridy = 3;
78
            a.gridheight = 2;
79
80
            add(no4, a);
81
            event ad = new event();
82
            add.addActionListener(ad);
83
84
            event1 subt = new event1();
85
            sub.addActionListener(subt);
87
            event2 mult = new event2();
            mul.addActionListener(mult);
89
90
91
            event3 divi = new event3();
            div.addActionListener(divi);
92
93
         public class event implements ActionListener{
94
            public void actionPerformed(ActionEvent ad) {
                int c, d;
96
                c = (int) (Double.parseDouble(no1.getText()));
97
                d = (int)(Double.parseDouble(no2.getText()));
98
```

```
int f = c + d;
99
                 res.setText("The Sum is " + f);
100
101
            }
102
         public class event1 implements ActionListener{
103
            public void actionPerformed(ActionEvent subt) {
                 int c, d;
105
                 c = (int) (Double.parseDouble(no1.getText()));
106
107
                 d = (int)(Double.parseDouble(no2.getText()));
                 int f = c - d;
108
                 res.setText("The Difference is " + f);
109
110
111
         public class event2 implements ActionListener{
112
            public void actionPerformed(ActionEvent subt) {
113
                 int c, d;
114
                 c = (int) (Double.parseDouble(no1.getText()));
115
                 d = (int)(Double.parseDouble(no2.getText()));
116
                 int f = c * d;
117
                 res.setText("The Product is " + f);
118
119
120
         public class event3 implements ActionListener{
121
            public void actionPerformed(ActionEvent subt) {
122
                 int c, d;
123
                 c = (int) (Double.parseDouble(no1.getText()));
124
125
                 d = (int)(Double.parseDouble(no2.getText()));
126
                 int f = c / d;
                 res.setText("The Quotient is " + f);
127
128
129
        }
130
           public static void main(String args[])
            Calculator gui = new Calculator();
131
            gui.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
132
            qui.setSize(300, 150);
133
            qui.setVisible(true);
134
135
            gui.setTitle("Calculator");
        }
136
137
138
139
```