

TESTGUI

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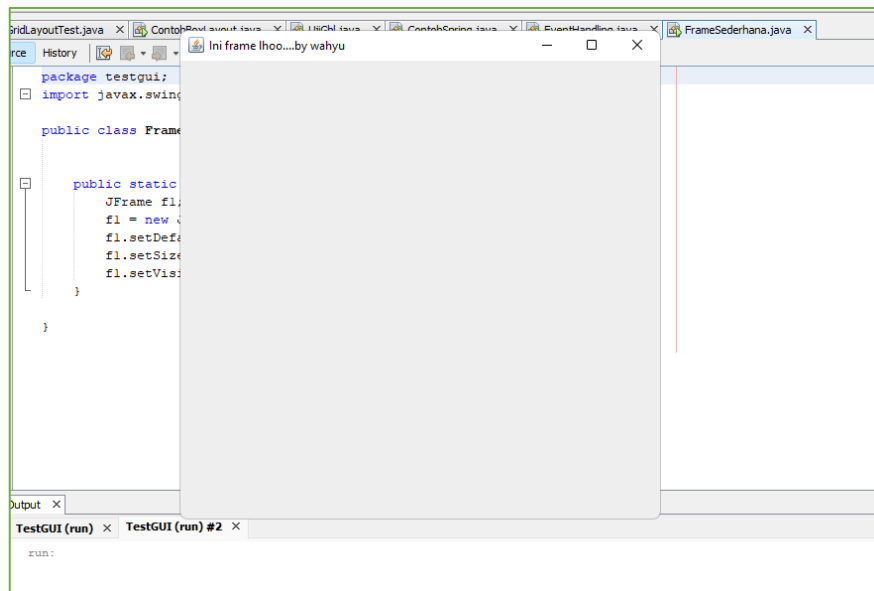
Kelas : XII RPL B

Absen : 34

1. Frame sederhana

```
1 package testgui;
2 import javax.swing.*;
3
4 public class FrameSederhana {
5
6
7     public static void main(String[] args) {
8         JFrame f1;
9         f1 = new JFrame("Ini frame lhoo....by wahyu");
10        f1.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
11        f1.setSize(500,500);
12        f1.setVisible(true);
13    }
14
15 }
16
```

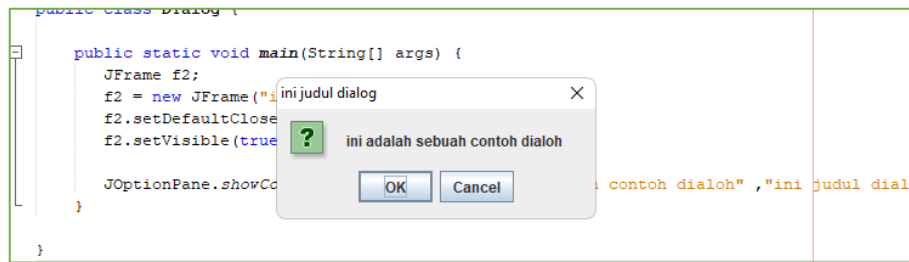
Output



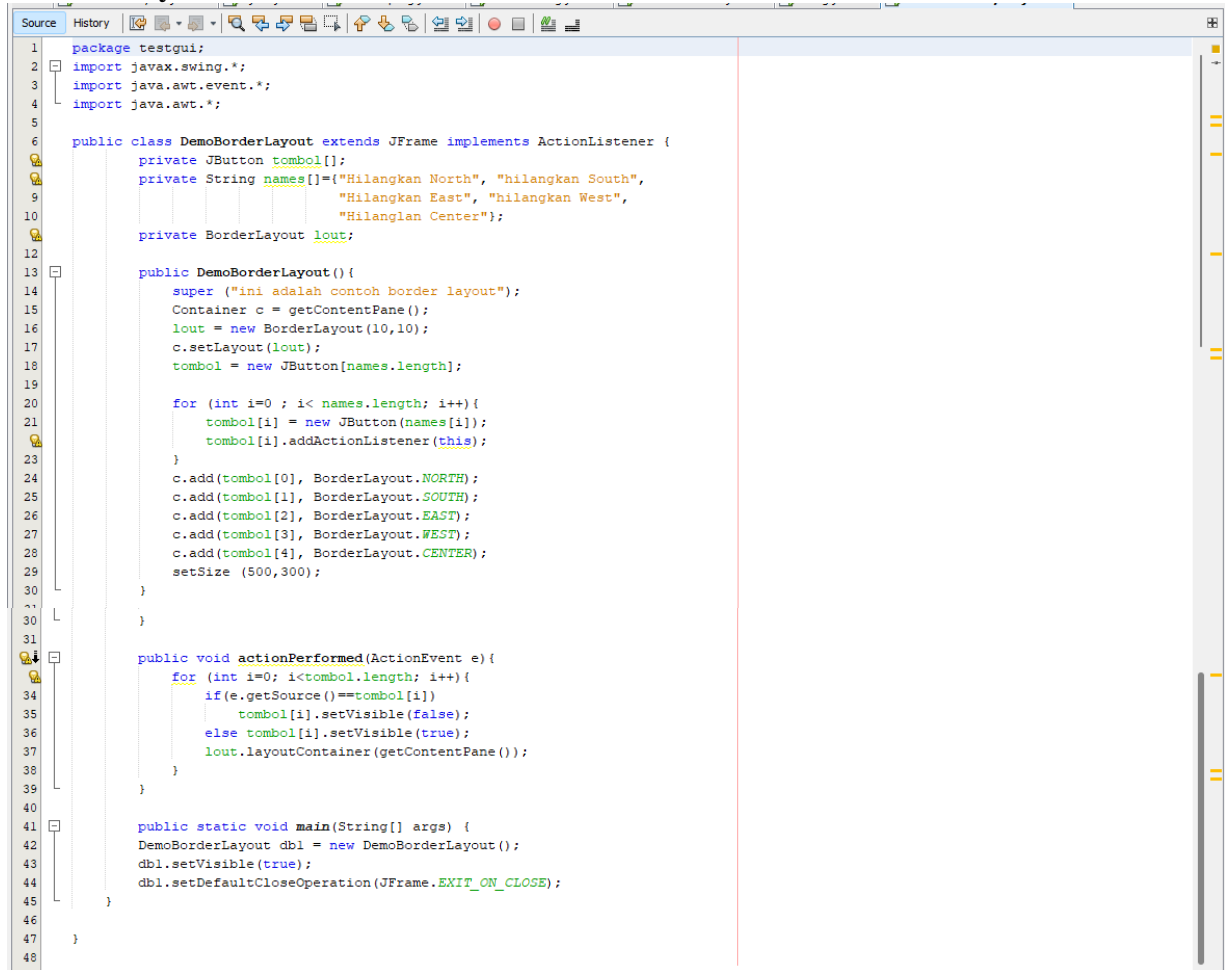
2. Dialog

```
1 package testgui;
2
3 import javax.swing.*;
4 public class Dialog {
5
6     public static void main(String[] args) {
7         JFrame f2;
8         f2 = new JFrame("ini adalah frame .....by wahyu");
9         f2.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
10        f2.setVisible(true);
11
12        JOptionPane.showConfirmDialog(f2,"ini adalah sebuah contoh dialog" ,"ini judul dialog", JOptionPane.OK_CANCEL_OPTION,JOptionPane
13    }
14
15 }
16
```

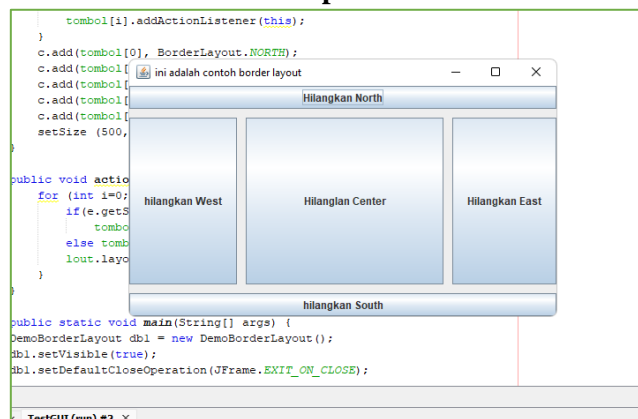
Output



3.BorderLayout



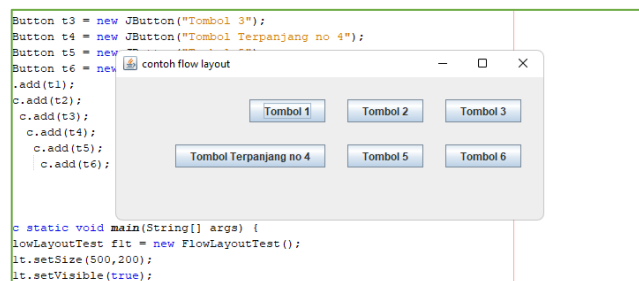
Output



4.FlowLayout

```
...ave Uygulama.java X ContohSpring.java X EventHandling.java X FrameSederhana.java X Dialog.java X DemoBorderLayout.java X FlowLayoutTest.java X
Source History
1 package testgui;
2 import javax.swing.*;
3 import java.awt.*;
4 import java.awt.event.*;
5
6 public class FlowLayoutTest extends JFrame {
7     public FlowLayoutTest() {
8         super("contoh flow layout");
9         FlowLayout lay = new FlowLayout();
10        lay.setAlignment(FlowLayout.RIGHT);
11        lay.setVgap(25); //mengatur jarak vertikal antar komponen
12        lay.setHgap(25); //mengatur jarak horizontal antar komponen
13        Container c = getContentPane();
14        c.setLayout(lay);
15        JButton t1 = new JButton("Tombol 1");
16        JButton t2 = new JButton("Tombol 2");
17        JButton t3 = new JButton("Tombol 3");
18        JButton t4 = new JButton("Tombol Terpanjang no 4");
19        JButton t5 = new JButton("Tombol 5");
20        JButton t6 = new JButton("Tombol 6");
21        c.add(t1);
22        c.add(t2);
23        c.add(t3);
24        c.add(t4);
25        c.add(t5);
26        c.add(t6);
27    }
28
29
30    public static void main(String[] args) {
31        FlowLayoutTest flt = new FlowLayoutTest();
32        flt.setSize(500,200);
33        flt.setVisible(true);
34        flt.addWindowListener(new WindowAdapter() {
35            public void windowClosing(WindowEvent e) {
36                System.exit(0);
37            }
38        });
39    }
40
41 }
42 }
```

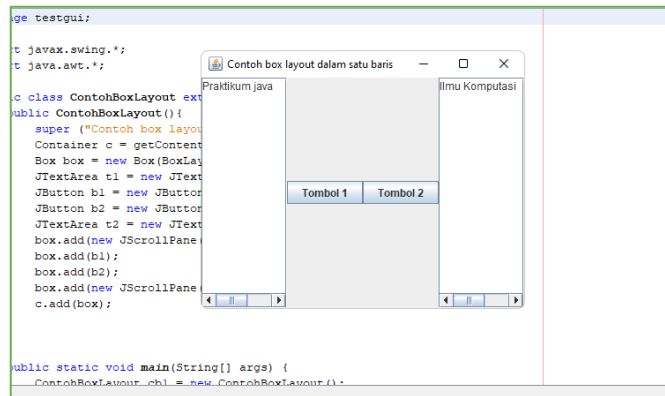
Output



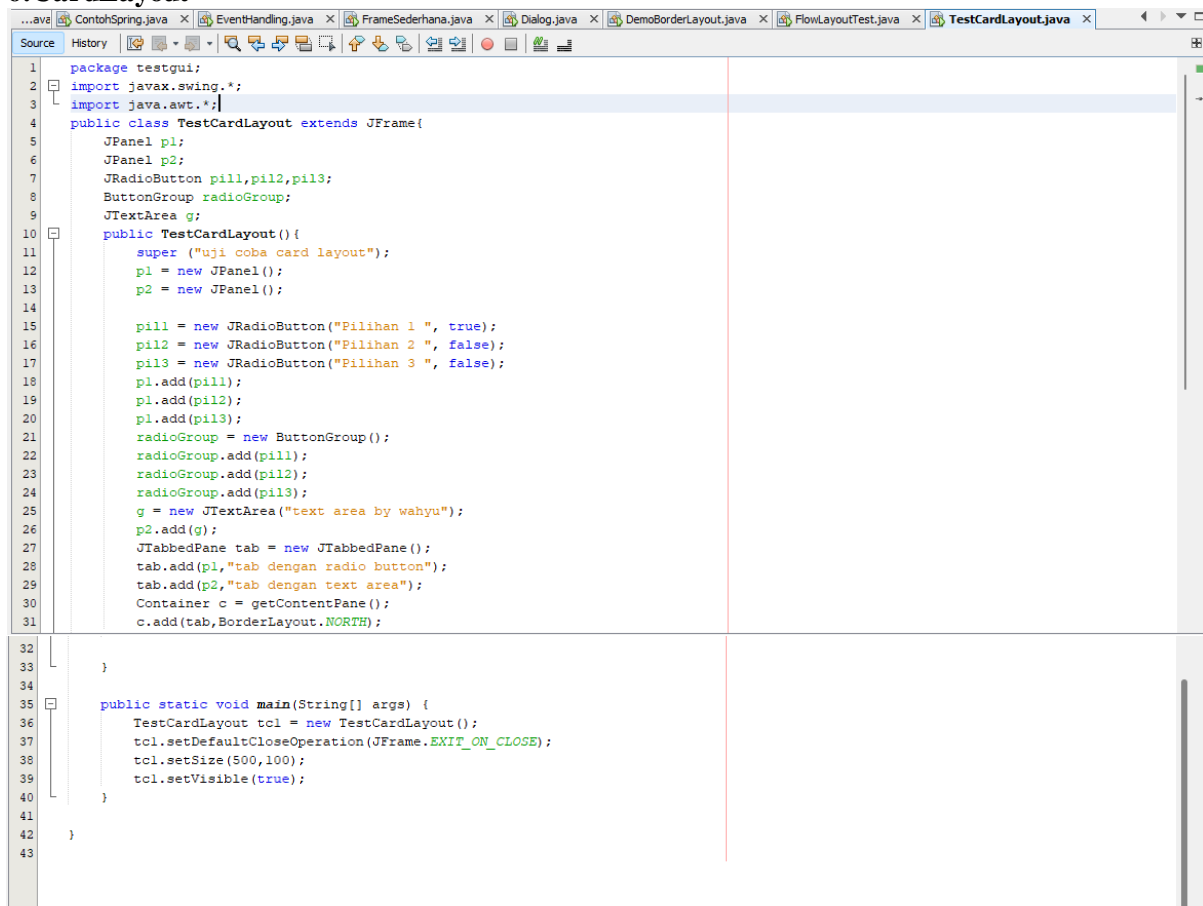
5.BoxLayout

```
...ave ContohBoxLayout.java X Uygulama.java X ContohSpring.java X EventHandling.java X FrameSederhana.java X Dialog.java X DemoBorderLayout.java X FlowLayoutTest.java X
Source History
1 package testgui;
2
3 import javax.swing.*;
4 import java.awt.*;
5
6 public class ContohBoxLayout extends JFrame {
7     public ContohBoxLayout() {
8         super("Contoh box layout dalam satu baris");
9         Container c = getContentPane();
10        Box box = new Box(BoxLayout.X_AXIS);
11        JTextArea t1 = new JTextArea("Praktikum java", 10, 15);
12        JButton b1 = new JButton("Tombol 1");
13        JButton b2 = new JButton("Tombol 2");
14        JTextArea t2 = new JTextArea("Ilmu Komputasi", 10, 15);
15        box.add(new JScrollPane(t1));
16        box.add(b1);
17        box.add(b2);
18        box.add(new JScrollPane(t2));
19        c.add(box);
20    }
21
22
23    public static void main(String[] args) {
24        ContohBoxLayout cbl = new ContohBoxLayout();
25        cbl.setSize(300,300);
26        cbl.setVisible(true);
27        cbl.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
28    }
29
30 }
31 }
```

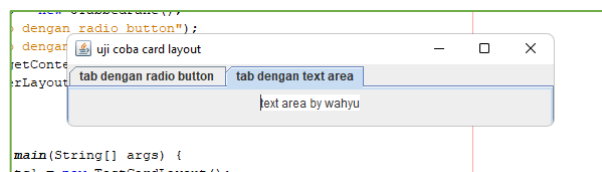
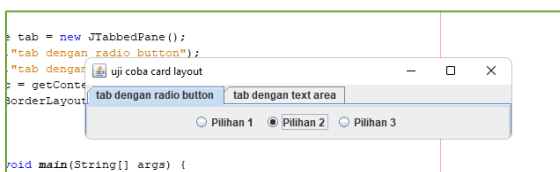
Output



6.CardLayout



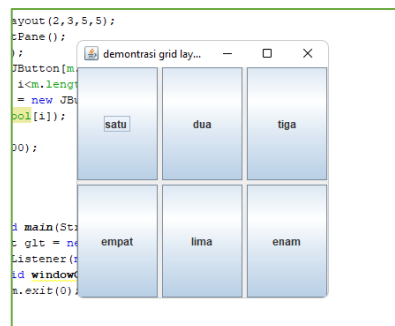
Output



7.GridLayout

```
GridLayoutTest.java x ContohBoxLayout.java x UjiGbl.java x ContohSpring.java x EventHandling.java x FrameSederhana.java x Dialog.java x DemoBorderLayout.java...
Source History
1 package testgui;
2 import javax.swing.*;
3 import java.awt.*;
4 import java.awt.event.*;
5
6 public class GridLayoutTest extends JFrame{
7     private JButton tombol[];
8     private String m[] = {"satu ", "dua", "tiga", "empat", "lima", "enam"};
9     private Container c;
10    private GridLayout g;
11
12    public GridLayoutTest(){
13        super ("demonstrasi grid layout");
14        g = new GridLayout(2,3,5,5);
15        c = getContentPane();
16        c.setLayout(g);
17        tombol = new JButton[m.length];
18        for (int i=0; i<m.length; i++){
19            tombol[i] = new JButton(m[i]);
20            c.add(tombol[i]);
21        }
22        setSize(300,300);
23        show();
24    }
25
26    public static void main(String[] args) {
27        GridLayoutTest glt = new GridLayoutTest();
28        glt.addWindowListener(new WindowAdapter(){
29            public void windowClosing(WindowEvent e){
30                System.exit(0);
31            }
32        });
33    }
34 }
35
36 }
```

Output



8.GridBagLayout

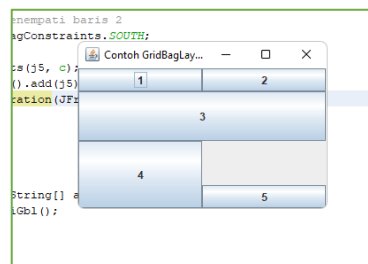
```
Source History
1 package testgui;
2 import javax.swing.*;
3 import java.awt.*;
4
5 public class UjiGbl {
6     JFrame f;
7     GridBagLayout gbl;
8     GridBagConstraints c;
9
10    public UjiGbl() {
11        f = new JFrame("Contoh GridBagLayout");
12        gbl = new GridBagLayout();
13        c = new GridBagConstraints();
14        f.getContentPane().setLayout(gbl);
15        c.fill = GridBagConstraints.HORIZONTAL;
16
17        JButton j1 = new JButton(" 1 ");
18        c.weightx = 2; //ukurran ruang horizontal
19        c.gridx = 0; //menempati kolom 0
20        c.gridy = 0; //menempati baris 0
21        gbl.setConstraints(j1, c);
22        f.getContentPane().add(j1);
23
24        JButton j2 = new JButton(" 2 ");
25        c.gridx = 1; //menempati kolom 1
26        c.gridy = 0; //menempati baris 0
27        gbl.setConstraints(j2, c);
28        f.getContentPane().add(j2);
29
30    }
```

```

30
31 JButton j3 = new JButton(" 3 ");
32 c.ipady = 30; //tingginya ditambah
33 c.gridwidth = 2; //tombol menempati 2 kolom
34 c.gridx = 0; //menempati kolom 0
35 c.gridy = 1; //menempati baris 1
36 gbl.setConstraints(j3, c);
37 f.getContentPane().add(j3);
38
39 JButton j4 = new JButton(" 4 ");
40 c.ipady = 50; //tingginya ditambah
41 c.gridwidth = 1; //tombol menempati 1 kolom
42 c.gridx = 0; //menempati kolom 0
43 c.gridy = 2; //menempati baris 2
44 gbl.setConstraints(j4, c);
45 f.getContentPane().add(j4);
46
47
48 JButton j5 = new JButton(" 5 ");
49 c.ipady = 0; //tingginya normal
50 c.weightx = 1; //tombol menempati satu kolom
51 c.gridx = 1; //menempati kolom 1
52 c.gridy = 2; //menempati baris 2
53 c.anchor = GridBagConstraints.SOUTH;
54
55 gbl.setConstraints(j5, c);
56 f.getContentPane().add(j5);
57 f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
58 f.pack();
59 f.setVisible(true);
60
61
62
63 public static void main(String[] args) {
64     Ujigbl uigbl = new Ujigbl();
65 }
66
67
68

```

Output



8.SpringLayout

```

GridLayoutTest.java x ContohBoxLayout.java x Ujigbl.java x ContohSpring.java x EventHandling.java x FrameSederhana.java x Dialog.java x DemoBorderLayout.java...
Source History
1 package testgui;
2
3 import javax.swing.JTextField;
4 import javax.swing.JLabel;
5 import java.awt.Container;
6 import javax.swing.*;
7
8
9 public class ContohSpring {
10     JFrame f;
11     Container c;
12     SpringLayout i;
13     JLabel label;
14     JTextField t;
15
16     public ContohSpring() {
17         f = new JFrame("Demo springlayout");
18         f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
19         c = f.getContentPane();
20         i = new SpringLayout();
21         c.setLayout(i);
22         label = new JLabel("ini label");
23         t = new JTextField("tuliskan teks", 10);
24         c.add(label);
25         c.add(t);
26
27         //mengatur batasan (constraints) untuk label sehingga berada
28         //diposisi (10,20)
29         i.putConstraint(SpringLayout.WEST, label, 20, SpringLayout.WEST, c);
30         i.putConstraint(SpringLayout.NORTH, label, 10, SpringLayout.NORTH, c);
31         //mengatur batasan untuk text field supaya posisinya di

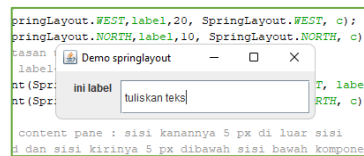
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32         //(sisi kanan label+10,)
33         i.putConstraint(SpringLayout.WEST,t,10, SpringLayout.EAST, label);
34         i.putConstraint(SpringLayout.NORTH,t,10, SpringLayout.NORTH, c);
35
36         //mengatur posisi content pane : sisi kanannya 5 px di luar sisi
37         //kanan text field dan sisi kirinya 5 px dibawah sisi bawah komponen
38         //komponen terpanjang
39         i.putConstraint(SpringLayout.EAST,c,5, SpringLayout.EAST, t);
40         i.putConstraint(SpringLayout.SOUTH,c,5, SpringLayout.SOUTH, t);
41         f.pack();
42         f.show();
43     }
44     public static void main(String[] args) {
45         ContohSpring cs = new ContohSpring();
46     }
47 }
48
49

```

Output



8.EventHandler

```

GridLayoutTest.java x ContohBoxLayout.java x UjGbl.java x ContohSpring.java x EventHandling.java x FrameSederhana.java x Dialog.java x DemoBorderLayout.j...
Source History
1 package testgui;
2 import javax.swing.*;
3 import java.awt.*;
4 import java.awt.event.*;
5
6 public class EventHandling {
7     private JButton b1, b2;
8     private JTextField t1, t2;
9     private JPanel panel1, panel2;
10    private JLabel l1, l2;
11    private JFrame f;
12    private double a, b, c;
13    private String konv1 = "Suhu dalam celcius adalah... ";
14    private String konv2 = "Suhu dalam Fahrenheit adalah... ";
15
16    public EventHandling() {
17        f = new JFrame("Konfersi suhu");
18        b1 = new JButton("Konversi ke Fahrenheit");
19
20        b2 = new JButton("Konversi ke celcius");
21        l1 = new JLabel("Konversi ke Fahreinheit");
22
23        b2 = new JButton("konvensi ke celcius");
24        l1 = new JLabel("konvensi ke celcius");
25        l2 = new JLabel("konvensi ke celcius");
26        t1 = new JTextField(10);
27        t2 = new JTextField(10);
28    }
29
30    public void hitungSuhu() {
31        panel1 = new JPanel();
32        panel2 = new JPanel();
33        b1.addActionListener(new FahrenheitHandler());
34        b2.addActionListener(new CelciusHandler());
35        panel1.add(l1);
36        panel1.add(t1);
37        panel1.add(b1);
38        panel2.add(l2);
39        panel2.add(t2);
40        panel2.add(b2);
41        JTabbedPane tab = new JTabbedPane();
42        tab.add(panel1, "celcius ke fahrenheit");
43        tab.add(panel2, "fahrenheit ke celcius");
44        f.getContentPane().add(tab, BorderLayout.NORTH);
45        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
46        f.setSize(600, 100);
47        f.setVisible(true);
48    }
49
50    private class FahrenheitHandler implements ActionListener {
51        public void actionPerformed(ActionEvent e) {
52            try {
53                a = Double.parseDouble(t1.getText());
54                b = a * 1.8 + 32;
55                JOptionPane.showMessageDialog(null, konv2 + b, "Hasil",
56                    JOptionPane.OK_CANCEL_OPTION, JOptionPane.INFORMATION_MESSAGE);
57            } catch (Exception j) {
58                JOptionPane.showMessageDialog(null, "Masukkan angka!", "error",
59                    JOptionPane.OK_CANCEL_OPTION, JOptionPane.INFORMATION_MESSAGE);
60            }
61        }
62    }
63
64    private class CelciusHandler implements ActionListener {
65        public void actionPerformed(ActionEvent e) {
66            try {
67                a = Double.parseDouble(t2.getText());
68                b = (a - 32) / 1.8;
69                JOptionPane.showMessageDialog(null, konv1 + b, "Hasil",
70                    JOptionPane.OK_CANCEL_OPTION, JOptionPane.INFORMATION_MESSAGE);
71            } catch (Exception j) {
72                JOptionPane.showMessageDialog(null, "Masukkan angka!", "error",
73                    JOptionPane.OK_CANCEL_OPTION, JOptionPane.INFORMATION_MESSAGE);
74            }
75        }
76    }
77
78 }

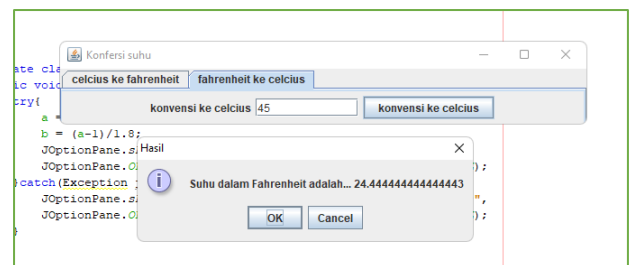
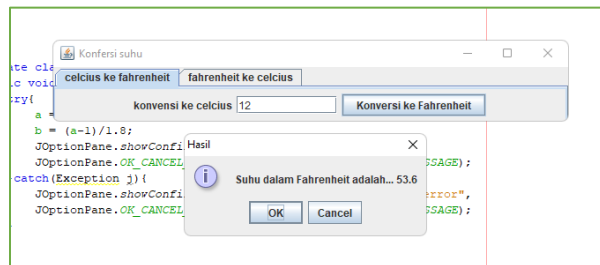
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```

60     }
61 }
62 }
63
64 private class CelciusHandler implements ActionListener{
65     public void actionPerformed(ActionEvent e){
66         try{
67             a = Double.parseDouble(t2.getText());
68             b = (a-1)/1.8;
69             JOptionPane.showMessageDialog(null,konv2+b,"Hasil",
70             JOptionPane.OK_CANCEL_OPTION,JOptionPane.INFORMATION_MESSAGE);
71         }catch(Exception j){
72             JOptionPane.showMessageDialog(null, "Masukkan angka!","error",
73             JOptionPane.OK_CANCEL_OPTION,JOptionPane.INFORMATION_MESSAGE);
74         }
75     }
76 }
77
78
79
80 public static void main(String[] args) {
81     EventHandler eh = new EventHandler();
82     eh.hitungSuhu();
83 }
84
85
86

```

Output



```

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=====()=====()=====
=====
-----
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```