

Pemrograman Berbasis Objek 2

LAYOUT MANAGER

Jenis Layout Manager

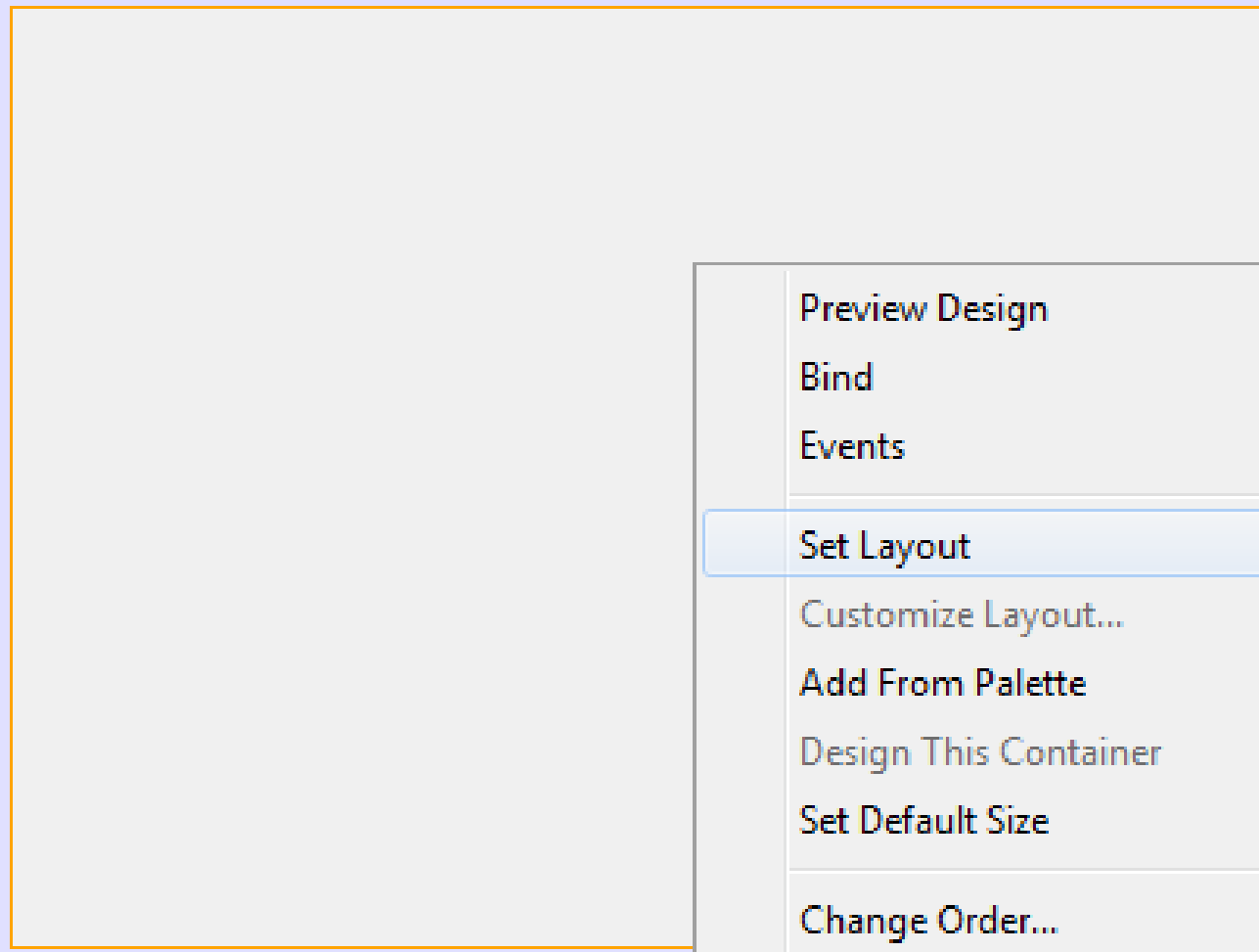
1. Border Layout
2. Flow Layout
3. Grid Layout
4. Grid Bag Layout
5. Box Layout
6. Card Layout

BorderLayoutBeraksi.java

```
public class BorderLayoutBeraksi extends JFrame {  
    JButton nButton = new JButton("North");  
    JButton sButton = new JButton("South");  
    JButton eButton = new JButton("East");  
    JButton wButton = new JButton("West");  
    JButton cButton = new JButton("Center");
```

```
    public BorderLayoutBeraksi() {  
        super("Border Layout Beraksi");  
        setSize(600, 400);  
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
        setLocationRelativeTo(null);  
        setLayout(new BorderLayout());  
        add(nButton, BorderLayout.NORTH);  
        add(sButton, BorderLayout.SOUTH);  
        add(eButton, BorderLayout.EAST);  
        add(wButton, BorderLayout.WEST);  
        add(cButton, BorderLayout.CENTER);  
    }
```

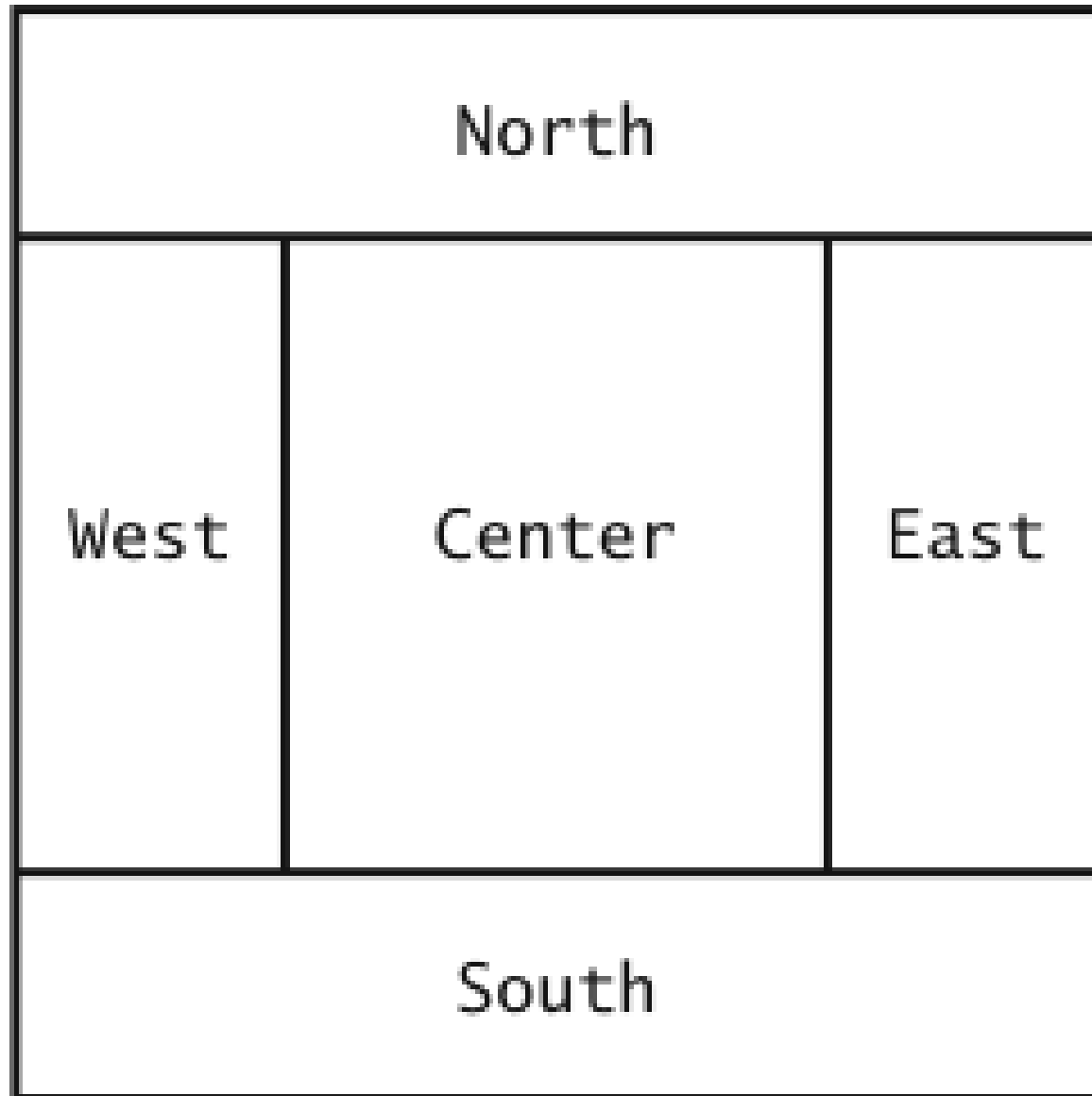
```
    public static void main(String[] args) {  
        BorderLayoutBeraksi frame = new BorderLayoutBeraksi();  
        frame.setVisible(true);  
    }  
}
```



- Preview Design ▶
- Bind ▶
- Events ▶
- Set Layout** ▶
- Customize Layout...
- Add From Palette ▶
- Design This Container
- Set Default Size
- Change Order...
- Copy
- Paste Ctrl+V
- Customize Code
- Properties

- Free Design**
- Absolute Layout
- Border Layout**
- Box Layout
- Card Layout
- Flow Layout
- Grid Bag Layout
- Grid Layout
- Null Layout

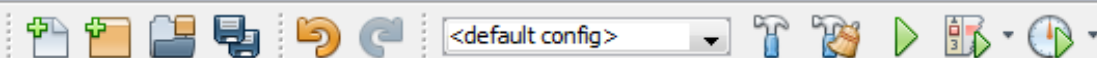
BorderLayout



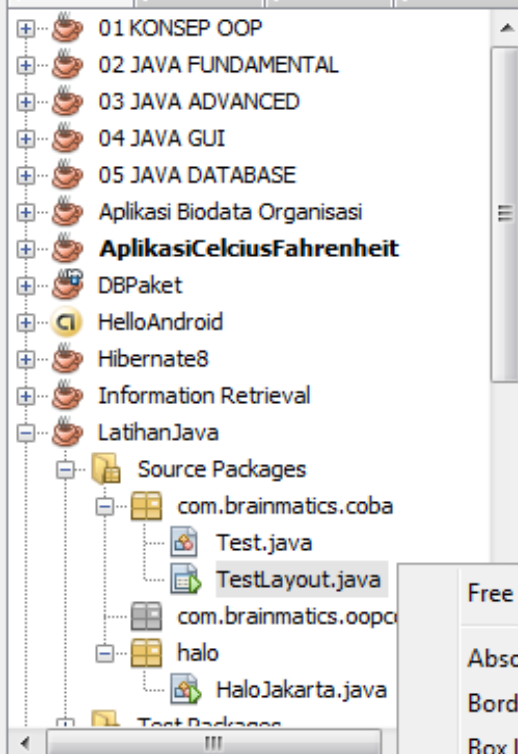
FlowLayoutBeraksi.java

```
public class FlowLayoutBeraksi extends JFrame {  
    JButton a = new JButton("Alibi");  
    JButton b = new JButton("Burglar");  
    JButton c = new JButton("Corpse");  
    JButton d = new JButton("Deadbeat");  
    JButton e = new JButton("Evidence");  
    JButton f = new JButton("Fugitive");  
  
    public FlowLayoutBeraksi() {  
        super("Flow Layout Beraksi"); setSize(600, 400);  
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
        FlowLayout lm = new FlowLayout(FlowLayout.LEFT);  
        setLayout(lm);  
        add(a); add(b); add(c); add(d);  
        add(e); add(f);  
        setVisible(true);  
    }  
}
```

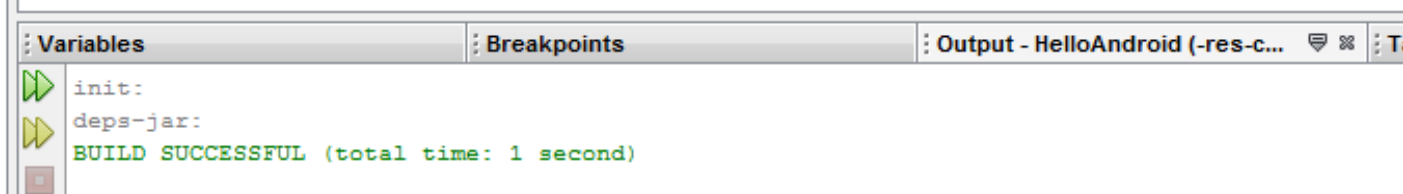
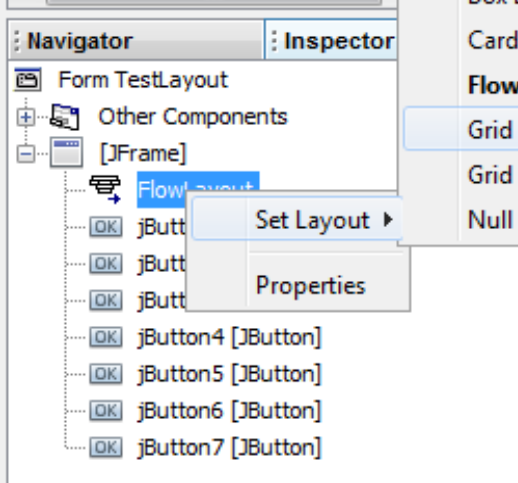
```
public static void main(String[] args) {  
    FlowLayoutBeraksi frame = new  
        FlowLayoutBeraksi();  
    }  
}
```

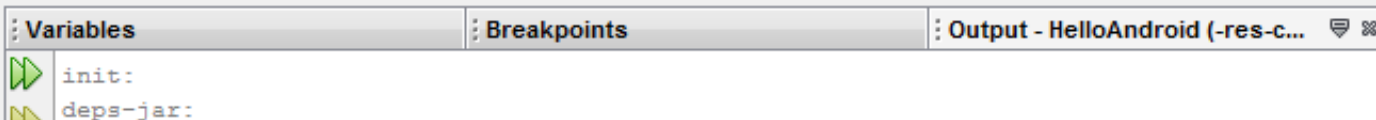
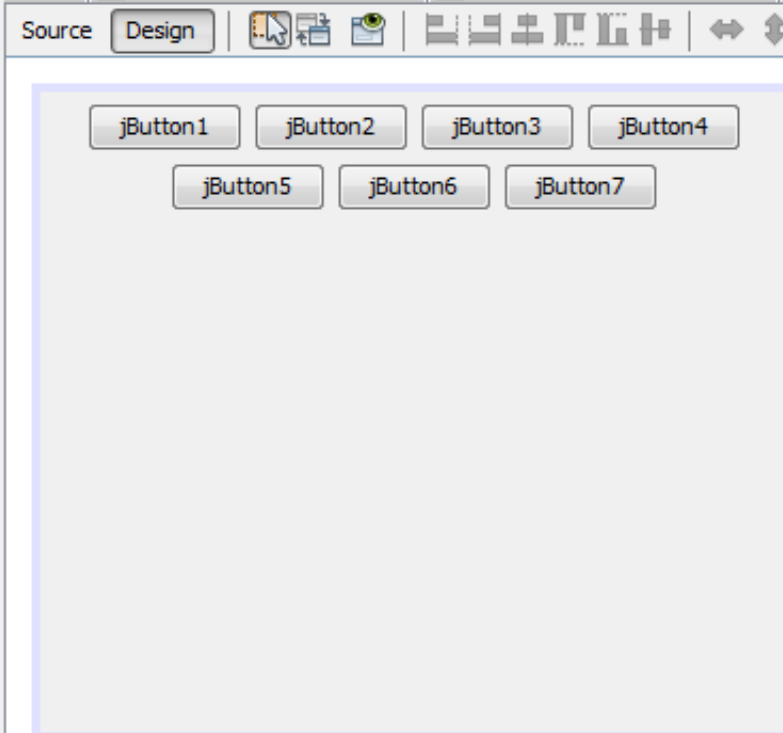
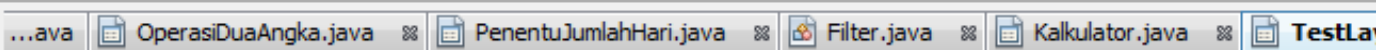
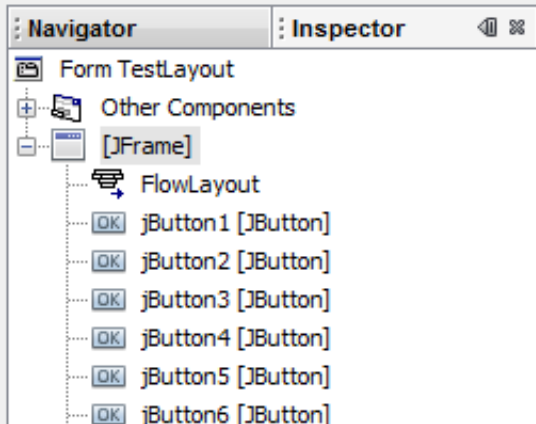
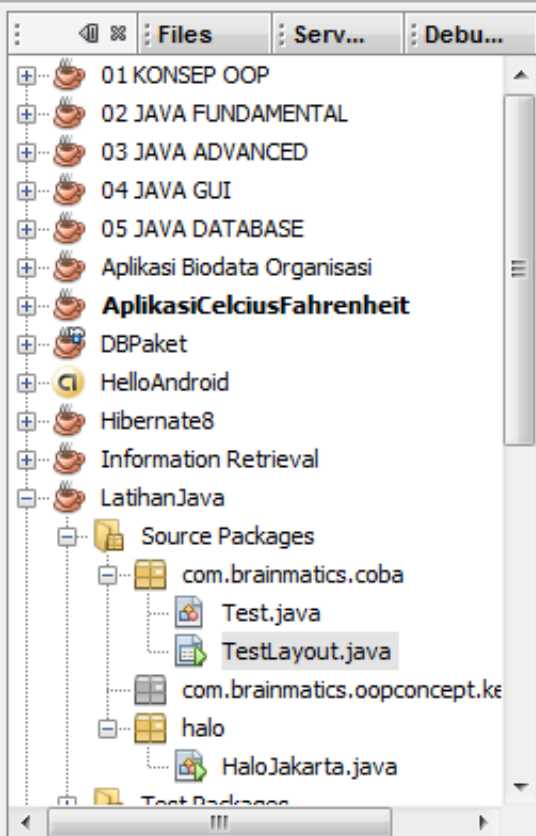
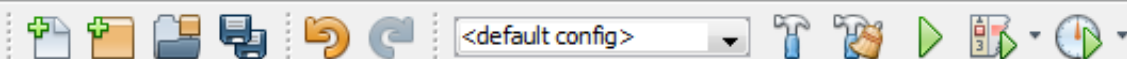


Files Serv... Debu... ...ava OperasiDuaAngka.java PenentuJumlahHari.java Filter.java Kalkulator.java TestLayout



Source Design

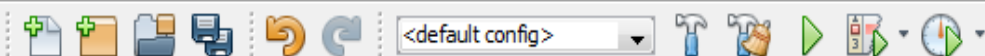




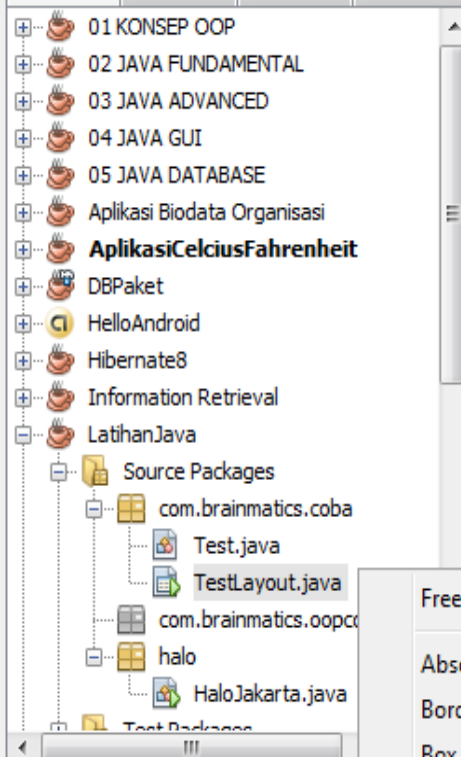
GridLayoutBeraksi.java

```
public class GridLayoutBeraksi extends JFrame {  
    JButton marcia = new JButton("Marcia");  
    JButton carol = new JButton("Carol");  
    JButton greg = new JButton("Greg");  
    JButton jan = new JButton("Jan");  
    JButton alice = new JButton("Alice");  
    JButton peter = new JButton("Peter");  
    JButton cindy = new JButton("Cindy");  
    JButton mike = new JButton("Mike");  
    JButton bobby = new JButton("Bobby");  
  
    public GridLayoutBeraksi() {  
        super("Grid Layout Beraksi ");  
        setSize(260, 260);  
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
        JPanel pane = new JPanel();
```

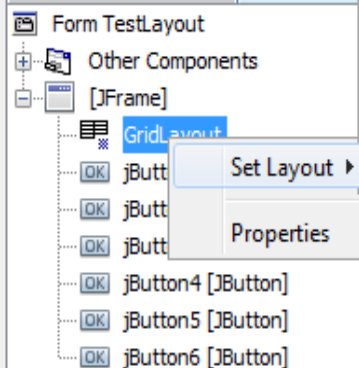
```
        GridLayout family = new GridLayout(3, 3, 10, 10);  
  
        pane.setLayout(family);  
        pane.add(marcia); pane.add(carol);  
        pane.add(greg); pane.add(jan);  
        pane.add(alice); pane.add(peter);  
        pane.add(cindy); pane.add(mike);  
        pane.add(bobby);  
  
        add(pane);  
        setVisible(true);  
    }  
  
    public static void main(String[] args) {  
        GridLayoutBeraksi frame = new  
            GridLayoutBeraksi();  
    }  
}
```



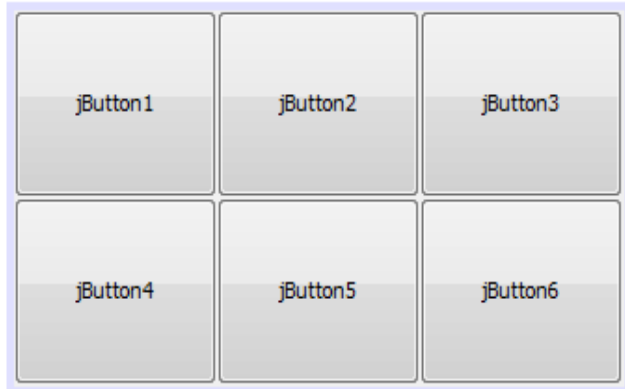
Files Serv... Debu... ...ava OperasiDuaAngka.java PenentuJumlahHari.java Filter.java Kalkulator.java TestLayout.java



Navigator Inspector



Source Design



GridLayout - Properties

Properties

Columns	2	...
Horizontal Gap	0	...
Rows	2	...
Vertical Gap	0	...

GridLayout

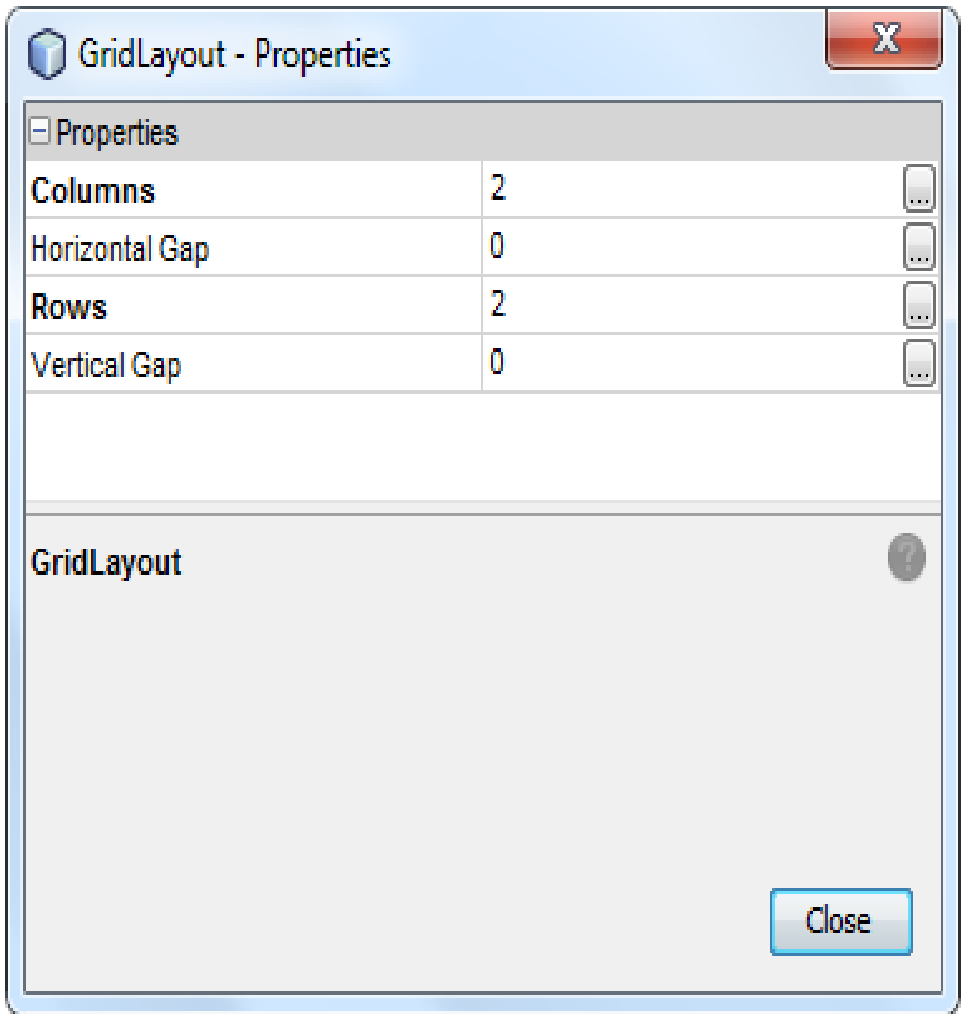
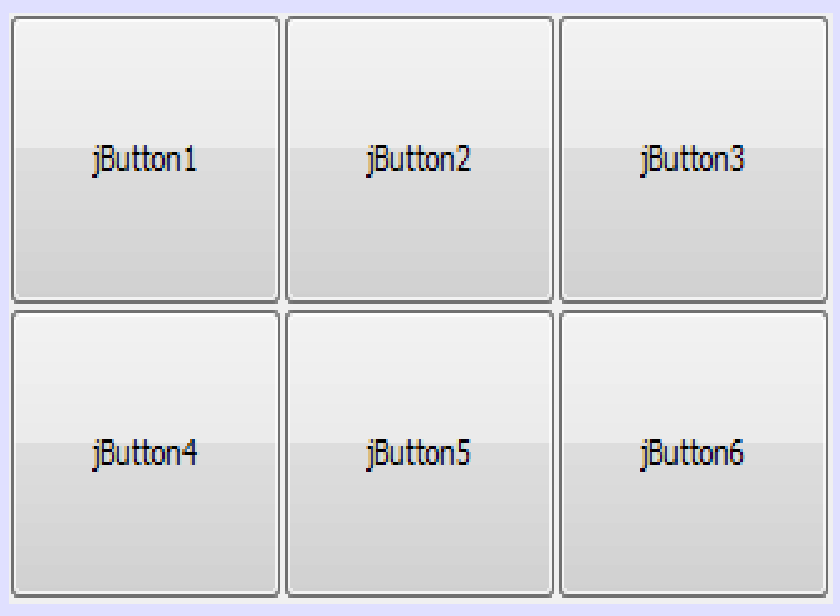
Close

- Free Design
- Absolute Layout
- Border Layout
- Box Layout
- Card Layout
- Flow Layout
- Grid Bag Layout
- Grid Layout**
- Null Layout

Set Layout ▸ Properties

Variables Breakpoints Output - HelloAndroid (-res-c... Tasks

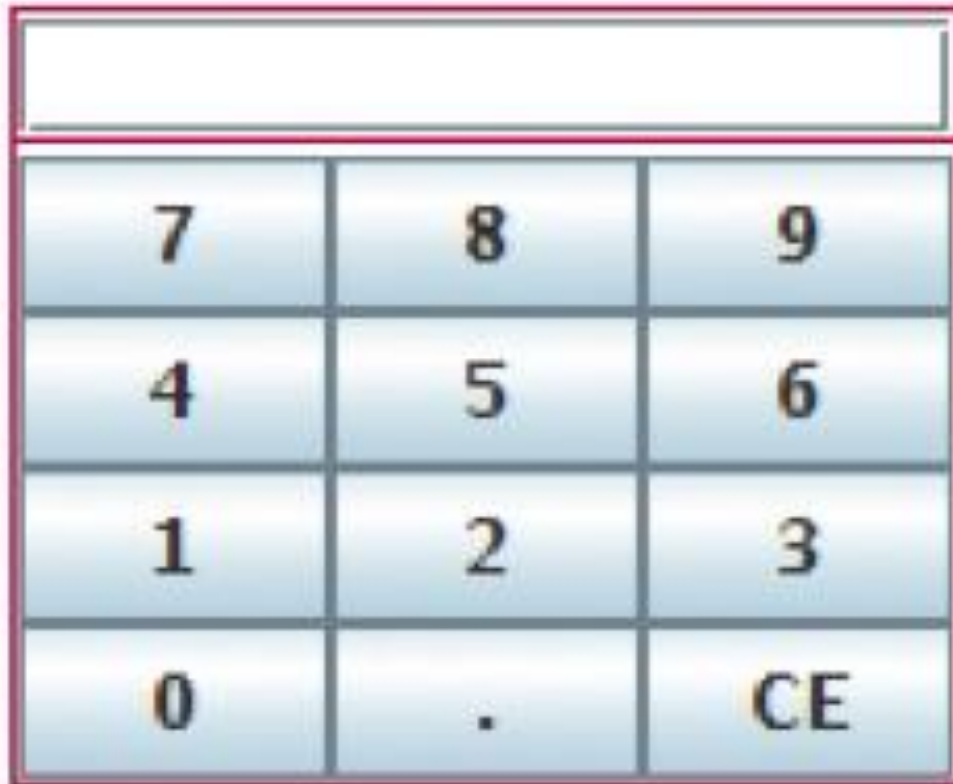
```
init:
deps-jar:
BUILD SUCCESSFUL (total time: 1 second)
```



GridLayout

7	8	9
4	5	6
1	2	3
0	.	CE

BorderLayout + GridLayout



JTextField
in NORTH position

JPanel
with GridLayout
in CENTER position

GridBagLayout

02 JAVA FUNDAMENTAL
03 JAVA ADVANCED
04 JAVA GUI
05 JAVA DATABASE
Aplikasi Biodata Organisasi
AplikasiCelciusFahrenheit
DBPaket
HelloAndroid
Hibernate8
Information Retrieval
LatihanJava
Source Packages
com.brainmatics.coba
Test.java
TestLayout.java
com.brainmatics.oopconcept.ke
halo
HaloJakarta.java
Test Packages

Navigator Inspector

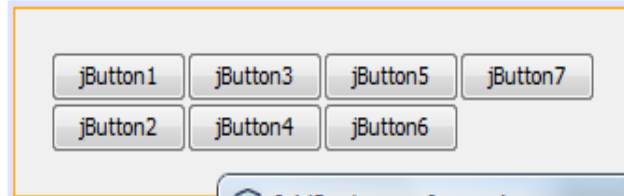
Form TestLayout

Other Components

[JFrame]

GridBagLayout

jButton1 [JButton]
jButton2 [JButton]
jButton3 [JButton]
jButton4 [JButton]
jButton5 [JButton]
jButton6 [JButton]
jButton7 [JButton]



GridBagLayout Customizer

Layout

Grid X: Relative
Grid Y: Relative
Grid Width: 1

jButton1 [JButton]

Anchor

Insets

Fill

I-Padding

Grid Size

Close Help

Variables

```
init:  
deps-jar:  
BUILD SUCCESSFUL (total time: 1 second)
```

BoxLayoutBeraksi.java

```
public class BoxLayoutBeraksi extends JFrame {  
    public BoxLayoutBeraksi() {  
        super("BoxLayoutBeraksi");  
        setSize(600, 300);  
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
        JPanel commandPane = new JPanel();  
        BoxLayout horizontal = new  
        BoxLayout(commandPane,BoxLayout.X_AXIS);  
        commandPane.setLayout(horizontal);  
        JButton subscribe = new JButton("Subscribe");  
        JButton unsubscribe = new  
        JButton("Unsubscribe");  
        JButton refresh = new JButton("Refresh");  
        commandPane.add(subscribe);  
        commandPane.add(unsubscribe);  
        commandPane.add(refresh);  
        add(commandPane);  
        setVisible(true);  
    }  
}
```

```
public static void main(String[] args) {  
    BoxLayoutBeraksi st = new  
    BoxLayoutBeraksi();  
}  
}
```

CardLayoutBeraksi.java

```
class CardLayoutBeraksi{  
    public static void main(String[] args){  
        JFrame frame = new JFrame("Card Layout Beraksi");  
        JPanel panel1 = new JPanel();  
        JPanel panel2 = new JPanel();  
        JButton button = new JButton("Button dalam panel ke 1");  
        JTextArea text = new JTextArea("Text dalam panel ke 2");  
        panel1.add(button); panel2.add(text);  
        JTabbedPane tab = new JTabbedPane();  
        tab.add(panel1, "Tab 1"); tab.add(panel2, "Tab 2");  
        frame.getContentPane().add(tab,BorderLayout.NORTH);  
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
        frame.pack();  
        frame.setVisible(true);  
    }  
}
```