

ID-28775

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Lab session date 7-20

`/*BackGround Colour Change Gui`

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`* To change this template file, choose Tools | Templates`

`* and open the template in the editor.`

`*/`

`package guijava;`

`import java.awt.Color;`

`/**`

`*`

`* @author Lab User`

`*/`

`public class Gui7_20 extends javax.swing.JFrame {`

`/**`

`* Creates new form Gui7_20`

`*/`

`public Gui7_20() {`

`initComponents();`

`}`

`/**`

`* This method is called from within the constructor to initialize the form.`

`* WARNING: Do NOT modify this code. The content of this method is always`

`* regenerated by the Form Editor.`

`*/`

`@SuppressWarnings("unchecked")`

`// <editor-fold defaultstate="collapsed" desc="Generated Code">`

`private void initComponents() {`

```
jPanel1 = new javax.swing.JPanel();
jButton2 = new javax.swing.JButton();
jButton1 = new javax.swing.JButton();
jButton3 = new javax.swing.JButton();
jButton4 = new javax.swing.JButton();
jLabel1 = new javax.swing.JLabel();
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
jButton2.setFont(new java.awt.Font("Segoe Print", 1, 24)); // NOI18N
jButton2.setForeground(new java.awt.Color(0, 0, 255));
jButton2.setText("Blue");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
jButton1.setFont(new java.awt.Font("Segoe Print", 1, 24)); // NOI18N
jButton1.setForeground(new java.awt.Color(255, 0, 0));
jButton1.setText("Red");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jButton3.setFont(new java.awt.Font("Segoe Print", 1, 24)); // NOI18N
jButton3.setForeground(new java.awt.Color(0, 255, 0));
jButton3.setText("Green");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
```

```

}
});

jButton4.setFont(new java.awt.Font("DialogInput", 0, 36)); // NOI18N
jButton4.setText("Set Default");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});

jLabel1.setFont(new java.awt.Font("OCR A Extended", 1, 36)); // NOI18N
jLabel1.setText("Click to change the color...");
javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(33, 33, 33)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jButton4, javax.swing.GroupLayout.Alignment.TRAILING,
                    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(71, 71, 71)
                    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 232,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                )
            )
        )
    );

```

```
.addGap(63, 63, 63)

.addComponent(jButton3, javax.swing.GroupLayout.DEFAULT_SIZE, 240,
Short.MAX_VALUE)))

.addGap(29, 29, 29))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup())

.addGap(33, 33, 33)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 61,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 272,
Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 105,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(10, 10, 10)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 136,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(32, 32, 32))

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
layout.setVerticalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
pack();
} // </editor-fold>

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
jPanel1.setBackground(Color.blue);
jButton2.setBackground(Color.black);
jButton1.setBackground(Color.white);
jButton3.setBackground(Color.white);
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
jPanel1.setBackground(Color.red);
jButton1.setBackground(Color.black);
jButton2.setBackground(Color.white);
jButton3.setBackground(Color.white);
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
jPanel1.setBackground(Color.green);
jButton3.setBackground(Color.black);
jButton2.setBackground(Color.white);
jButton1.setBackground(Color.white);
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

```

```

jPanel1.setBackground(null);

jButton3.setBackground(Color.white);

jButton2.setBackground(Color.white);

jButton1.setBackground(Color.white);
}

/**
 * @param args the command line arguments
 */

public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    <!--<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
    * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
            javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Gui7_20.class.getName()).log(java.util.logging.Level.SEVERE,
            null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Gui7_20.class.getName()).log(java.util.logging.Level.SEVERE,
            null, ex);
    } catch (IllegalAccessException ex) {

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java.util.logging.Logger.getLogger(Gui7_20.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
} catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(Gui7_20.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
public void run() {
new Gui7_20().setVisible(true);
}
});
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JLabel jLabel1;
private javax.swing.JPanel jPanel1;

// End of variables declaration
}

/*Click Counter
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* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/

package guijava;

```

```

/**
 *
 * @author Lab User
 */
public class Counter extends javax.swing.JFrame {
/**
 * Creates new form Counter
 */
public Counter() {
    initComponents();
}
/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {
    jButton1 = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    jButton1.setFont(new java.awt.Font("Source Code Pro Light", 1, 24)); // NOI18N
    jButton1.setText("ClickMe");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    }

```



```

});

jLabel1.setFont(new java.awt.Font("Harrington", 3, 24)); // NOI18N
jLabel1.setText("No Of Counts is :");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);

layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(102, 102, 102)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 214,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 60,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(102, 102, 102))
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 174,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(110, 110, 110))))
        .addGroup(layout.createSequentialGroup()
            .addGap(89, 89, 89)
            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 69,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(40, 40, 40)

```

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE))
.addContainerGap(61, Short.MAX_VALUE))
);
pack();
} // </editor-fold>

int i=0;

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
i++;
jTextField1.setText(String.valueOf(i));
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
/* Set the Nimbus look and feel */
//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
/* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
 * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
 */
try {
for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
if ("Nimbus".equals(info.getName())) {
javax.swing.UIManager.setLookAndFeel(info.getClassName());
break;

```

```

    }
}
} catch (ClassNotFoundException ex) {
    java.util.logging.Logger.getLogger(Counter.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
} catch (InstantiationException ex) {
    java.util.logging.Logger.getLogger(Counter.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
} catch (IllegalAccessException ex) {
    java.util.logging.Logger.getLogger(Counter.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
} catch (javax.swing.UnsupportedLookAndFeelException ex) {
    java.util.logging.Logger.getLogger(Counter.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Counter().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JTextField jTextField1;

// End of variables declaration
}

```

```
//Main class  
package guijava;  
public class GuiJava {  
    public static void main(String[] args) {  
        Gui7_20 g1=new Gui7_20();  
        g1.show();  
        Counter c1=new Counter();  
        c1.show();  
    }  
}
```