

## **BankMain.java**

```
package BankAccount;
```

```
import java.awt.*;
```

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

```
import javax.swing.*;
```

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

```
    public BankMain() {
```

```
        initComponents();
```

```
    }
```

```
@SuppressWarnings("unchecked")
```

```
// <editor-fold defaultstate="collapsed" desc="Generated Code"> //GEN-BEGIN: initComponents
```

```
private void initComponents() {
```

```
    jButton1 = new JButton();
```

```
    jLabel1 = new JLabel();
```

```
    jButton2 = new JButton();
```

```
    jButton3 = new JButton();
```

```
    jButton4 = new JButton();
```

```
    jButton6 = new JButton();
```

```
    jButton7 = new JButton();
```

```
    jMenuBar1 = new JMenuBar();
```

```
    jMenu1 = new JMenu();
```

```
    jMenuItem1 = new JMenuItem();
```

```
    jSeparator1 = new JPopupMenu.Separator();
```

```
    jMenuItem3 = new JMenuItem();
```

```
    jMenuItem4 = new JMenuItem();
```

```
    jMenu2 = new JMenu();
```

```
jMenuItem5 = new JMenuItem();
jMenuItem6 = new JMenuItem();
jMenuItem7 = new JMenuItem();

setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
setTitle("ITSOURCECODE Bank Account Manager");

jButton1.setText("Create Account");
jButton1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jLabel1.setFont(new Font("Microsoft Sans Serif", 1, 15)); // NOI18N
jLabel1.setText("WELCOME TO ITSOURCECODE BANK RECORD MANAGER!");

jButton2.setText("Deposit");
jButton2.setMaximumSize(new Dimension(107, 23));
jButton2.setMinimumSize(new Dimension(107, 23));
jButton2.setPreferredSize(new Dimension(107, 23));
jButton2.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jButton3.setText("Withdraw");
jButton3.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
```

```
    }  
});
```

```
jButton4.setText("Check Balance");  
jButton4.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent evt) {  
        jButton4ActionPerformed(evt);  
    }  
});
```

```
jButton6.setText("About");  
jButton6.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent evt) {  
        jButton6ActionPerformed(evt);  
    }  
});
```

```
jButton7.setText("EXIT");  
jButton7.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent evt) {  
        jButton7ActionPerformed(evt);  
    }  
});
```

```
jMenu1.setText("New");
```

```
jMenuItem1.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_N, InputEvent.CTRL_MASK));  
jMenuItem1.setText("New Account..");  
jMenuItem1.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent evt) {  
        jMenuItem1ActionPerformed(evt);  
    }  
});
```

```
    }  
});  
jMenu1.add(jMenuItem1);  
jMenu1.add(jSeparator1);  
  
jMenuItem3.setText("About");  
jMenuItem3.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent evt) {  
        jMenuItem3ActionPerformed(evt);  
    }  
});  
jMenu1.add(jMenuItem3);  
  
jMenuItem4.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_F4, InputEvent.ALT_MASK));  
jMenuItem4.setText("Exit");  
jMenuItem4.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent evt) {  
        jMenuItem4ActionPerformed(evt);  
    }  
});  
jMenu1.add(jMenuItem4);  
  
jMenuBar1.add(jMenu1);  
  
jMenu2.setText("Transaction");  
  
jMenuItem5.setText("Deposit Amount..");  
jMenuItem5.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent evt) {  
        jMenuItem5ActionPerformed(evt);  
    }  
})
```

```

});

jMenu2.add(jMenuItem5);


jMenuItem6.setText("Withdraw Amount..");
jMenuItem6.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent evt) {
        jMenuItem6ActionPerformed(evt);
    }
});

jMenu2.add(jMenuItem6);


jMenuItem7.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_B, InputEvent.CTRL_MASK));
jMenuItem7.setText("Check Account Balance..");
jMenuItem7.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent evt) {
        jMenuItem7ActionPerformed(evt);
    }
});

jMenu2.add(jMenuItem7);


jMenuBar1.add(jMenu2);


setJMenuBar(jMenuBar1);


GroupLayout layout = new GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(layout.createParallelGroup(GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(20, 20, 20)
        .addGroup(layout.createParallelGroup(GroupLayout.Alignment.LEADING, false)

```

```

        .addComponent(jButton4, GroupLayout.DEFAULT_SIZE, GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        .addComponent(jButton1, GroupLayout.DEFAULT_SIZE, GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))

        .addGap(55, 55, 55)

        .addGroup(layout.createParallelGroup(GroupLayout.Alignment.TRAILING)

            .addComponent(jButton2, GroupLayout.PREFERRED_SIZE, GroupLayout.DEFAULT_SIZE,
GroupLayout.PREFERRED_SIZE)

            .addComponent(jButton6, GroupLayout.PREFERRED_SIZE, 107,
GroupLayout.PREFERRED_SIZE))

        .addPreferredGap(LayoutStyle.ComponentPlacement.RELATED, GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        .addGroup(layout.createParallelGroup(GroupLayout.Alignment.LEADING)

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

            .addComponent(jButton7, GroupLayout.PREFERRED_SIZE, 103,
GroupLayout.PREFERRED_SIZE))

        .addGap(26, 26, 26))

        .addGroup(layout.createSequentialGroup())

            .addComponent(jLabel1, GroupLayout.DEFAULT_SIZE, 472, Short.MAX_VALUE)

            .addContainerGap())
);

layout.setVerticalGroup(layout.createParallelGroup(GroupLayout.Alignment.LEADING)

    .addGroup(layout.createSequentialGroup()

        .addContainerGap()

        .addComponent(jLabel1, GroupLayout.PREFERRED_SIZE, 72, GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(layout.createParallelGroup(GroupLayout.Alignment.LEADING)

            .addComponent(jButton3, GroupLayout.Alignment.TRAILING,
GroupLayout.PREFERRED_SIZE, 41, GroupLayout.PREFERRED_SIZE)

            .addGroup(layout.createParallelGroup(GroupLayout.Alignment.BASELINE)

                .addComponent(jButton1, GroupLayout.PREFERRED_SIZE, 40,
GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(jButton2, GroupLayout.PREFERRED_SIZE, 40,
GroupLayout.PREFERRED_SIZE)))

        .addPreferredGap(LayoutStyle.ComponentPlacement.UNRELATED)

        .addGroup(layout.createParallelGroup(GroupLayout.Alignment.LEADING, false)

            .addComponent(jButton4, GroupLayout.DEFAULT_SIZE, 41, Short.MAX_VALUE)

            .addComponent(jButton6, GroupLayout.DEFAULT_SIZE, GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

            .addComponent(jButton7, GroupLayout.DEFAULT_SIZE, GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))

        .addGap(110, 110, 110))

    );

    pack();
} // </editor-fold> // GEN-END: initComponents

private static Account acc;

private void jMenuItem6ActionPerformed(ActionEvent evt) { // GEN-
FIRST:event_jMenuItem6ActionPerformed

    try
    {

        String num;

        num = JOptionPane.showInputDialog(null, "Enter a Amount To Withdraw:", "Withdraw
Amount", 1);

        double num1 = Double.parseDouble(num);

        acc.withdraw(num1);

    }

    catch(BankAccountException | NumberFormatException | NullPointerException ex)

    {

        JOptionPane.showMessageDialog(null, ex, "Error", 2);

    }

} // GEN-LAST:event_jMenuItem6ActionPerformed

```

```

private void jButton2ActionPerformed(ActionEvent evt) { //GEN-
FIRST:event_jButton2ActionPerformed

    try
    {
        String num;

        num = JOptionPane.showInputDialog(null, "Enter a Value To Deposit:", "Deposit Amount", 1);

        double num1 = Double.parseDouble(num);

        acc.deposit(num1);
    }

    catch(NumberFormatException | NullPointerException nfe1)
    {
        JOptionPane.showMessageDialog(null, nfe1, "Error", 2);
    }

} //GEN-LAST:event_jButton2ActionPerformed

```

```

private void jMenuItem1ActionPerformed(ActionEvent evt) { //GEN-
FIRST:event_jMenuItem1ActionPerformed

    String name;

    long num;

    name = JOptionPane.showInputDialog(null, "Please Enter Account Holder Name:", "Create
Account", 1);

    num = 1332522123;

    acc = new Account(name, num);

    JOptionPane.showMessageDialog(null, "Account Succesfully Created!", "Create Account", 1);

} //GEN-LAST:event_jMenuItem1ActionPerformed

```

```

private void jButton6ActionPerformed(ActionEvent evt) { //GEN-
FIRST:event_jButton6ActionPerformed

    JOptionPane.showMessageDialog(null, "Created By ITSOURCECODE", "About", 1);

} //GEN-LAST:event_jButton6ActionPerformed

```

```

private void jMenuItem3ActionPerformed(ActionEvent evt) { //GEN-
FIRST:event_jMenuItem3ActionPerformed

```



```

        JOptionPane.showMessageDialog(null,"Created By ITSOURCECODE", "About", 1);
    }//GEN-LAST:event_jMenuItem3ActionPerformed

    private void jMenuItem4ActionPerformed(ActionEvent evt) { //GEN-FIRST:event_jMenuItem4ActionPerformed
        System.exit(0);
    }//GEN-LAST:event_jMenuItem4ActionPerformed

    private void jMenuItem5ActionPerformed(ActionEvent evt) { //GEN-FIRST:event_jMenuItem5ActionPerformed
        try
        {
            String num;

            num = JOptionPane.showInputDialog(null, "Enter a Value To Deposit:", "Deposit Amount", 1);

            double num1 = Double.parseDouble(num);

            acc.deposit(num1);
        }
        catch(NumberFormatException | NullPointerException nfe1)
        {
            JOptionPane.showMessageDialog(null, nfe1, "Error", 2);
        }
    }//GEN-LAST:event_jMenuItem5ActionPerformed

    private void jMenuItem7ActionPerformed(ActionEvent evt) { //GEN-FIRST:event_jMenuItem7ActionPerformed
        try
        {
            double num = acc.getBalance();

            JOptionPane.showMessageDialog(null, "Current Balance: " + num, "Current Balance", 1);
        }
        catch(NullPointerException npe)
        {

```

```

        JOptionPane.showMessageDialog(null, npe, "Error", 2);
    }
}

//GEN-LAST:event_jMenuItem7ActionPerformed

private void jButton1ActionPerformed(ActionEvent evt) { //GEN-FIRST:event_jButton1ActionPerformed

    String name;

    long num;

    name = JOptionPane.showInputDialog(null, "Please Enter Account Holder Name:", "Create Account", 1);

    num = 1332522123;

    acc = new Account(name, num);

    JOptionPane.showMessageDialog(null, "Account Succesfully Created!", "Create Account", 1);

}

//GEN-LAST:event_jButton1ActionPerformed

private void jButton3ActionPerformed(ActionEvent evt) { //GEN-FIRST:event_jButton3ActionPerformed

    try
    {

        String num;

        num = JOptionPane.showInputDialog(null, "Enter a Amount To Withdraw:", "Withdraw Amount", 1);

        double num1 = Double.parseDouble(num);

        acc.withdraw(num1);

    }

    catch(BankAccountException | NumberFormatException | NullPointerException ex)

    {

        JOptionPane.showMessageDialog(null, ex, "Error", 2);

    }

}

//GEN-LAST:event_jButton3ActionPerformed

private void jButton4ActionPerformed(ActionEvent evt) { //GEN-FIRST:event_jButton4ActionPerformed

```

```

try
{
    double num = acc.getBalance();

    JOptionPane.showMessageDialog(null, "Current Balance: " + num, "Current Balance", 1);
}

catch(NullPointerException npe)
{
    JOptionPane.showMessageDialog(null, npe, "Error", 2);
}

} //GEN-LAST:event_jButton4ActionPerformed


private void jButton7ActionPerformed(ActionEvent evt) { //GEN-FIRST:event_jButton7ActionPerformed
    System.exit(0);
} //GEN-LAST:event_jButton7ActionPerformed


/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Windows look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Windows (introduced in Java SE 4) 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 ("Windows".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    }
}

```

```

    }

    } catch (ClassNotFoundException | InstantiationException | IllegalAccessException |
javax.swing.UnsupportedLookAndFeelException ex) {

        java.util.logging.Logger.getLogger(BankMain.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);

    }

//</editor-fold>

//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(() -> {

    new BankMain().setVisible(true);

});
}

// Variables declaration - do not modify//GEN-BEGIN:variables
private JButton jButton1;
private JButton jButton2;
private JButton jButton3;
private JButton jButton4;
private JButton jButton6;
private JButton jButton7;
private JLabel jLabel1;
private JMenu jMenu1;
private JMenu jMenu2;
private JMenuBar jMenuBar1;
private JMenuItem jMenuItem1;
private JMenuItem jMenuItem3;
private JMenuItem jMenuItem4;
private JMenuItem jMenuItem5;
private JMenuItem jMenuItem6;

```

```
private JMenuItem jMenuItem7;  
private JPopupMenu.Separator jSeparator1;  
// End of variables declaration//GEN-END:variables  
}
```