```
/*
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 */

/**
 *
 * @author Windows 10
 */

import java.awt.event.KeyEvent;
import javax.swing.JOptionPane;

public class BP1_M1_PostTest_IlhamHafidz extends javax.swing.JFrame {

    int bilangan1;
    int bilangan2;

    /**
     * Creates new form BP1_M1_PostTest_IlhamHafidz
     */
    public BP1_M1_PostTest_IlhamHafidz() {
        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() {

        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

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jTextField1.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusLost(java.awt.event.FocusEvent evt) {
        jTextField1FocusLost(evt);
    }
});
jTextField1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseExited(java.awt.event.MouseEvent evt) {
        jTextField1MouseExited(evt);
    }
});
jTextField1.addInputMethodListener(new java.awt.event.InputMethodListener() {
    public void caretPositionChanged(java.awt.event.InputMethodEvent evt) {
    }
    public void inputMethodTextChanged(java.awt.event.InputMethodEvent evt) {
        jTextField1InputMethodTextChanged(evt);
    }
});
jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});
jTextField1.addPropertyChangeListener(new java.beans.PropertyChangeListener() {
    public void propertyChange(java.beans.PropertyChangeEvent evt) {
        jTextField1PropertyChange(evt);
    }
});
jTextField1.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyPressed(java.awt.event.KeyEvent evt) {
        jTextField1KeyPressed(evt);
    }
    public void keyReleased(java.awt.event.KeyEvent evt) {
        jTextField1KeyReleased(evt);
    }
});

jTextField2.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyPressed(java.awt.event.KeyEvent evt) {
        jTextField2KeyPressed(evt);
    }
});

jLabel1.setText("Bilangan 2");

jLabel2.setText("Bilangan 1");

jLabel3.setText("KALKULATOR CERDAS BANGET");
jLabel3.setMinimumSize(new java.awt.Dimension(200, 16));
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jButton1.setText("+");
jButton1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jButton1MouseClicked(evt);
    }
});
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jButton1.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyPressed(java.awt.event.KeyEvent evt) {
        jButton1KeyPressed(evt);
    }
});

jButton2.setText("-");
jButton2.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jButton2MouseClicked(evt);
    }
});
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
jButton2.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyPressed(java.awt.event.KeyEvent evt) {
        jButton2KeyPressed(evt);
    }
});

jButton3.setText("*");
jButton3.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jButton3MouseClicked(evt);
    }
});
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
jButton3.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyPressed(java.awt.event.KeyEvent evt) {
```

```
            jButton3KeyPressed(evt);
        }
    });

    jButton4.setText("/");
    jButton4.addMouseListener(new java.awt.event.MouseAdapter() {
        public void mouseClicked(java.awt.event.MouseEvent evt) {
            jButton4MouseClicked(evt);
        }
    });
    jButton4.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton4ActionPerformed(evt);
        }
    });
    jButton4.addKeyListener(new java.awt.event.KeyAdapter() {
        public void keyPressed(java.awt.event.KeyEvent evt) {
            jButton4KeyPressed(evt);
        }
    });

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(67, 67, 67)
                    .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(layout.createSequentialGroup()
                    .addGap(19, 19, 19)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
64, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jTextField1)
                        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
64, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jTextField2,
javax.swing.GroupLayout.PREFERRED_SIZE, 274,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                            .addComponent(jButton1)
                            .addGap(18, 18, 18)
```

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                        .addComponent(jButton2)
                        .addGap(18, 18, 18)
                        .addComponent(jButton3)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                        .addComponent(jButton4)
                        .addGap(72, 72, 72)))))
                .addContainerGap(16, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(30, 30, 30)
                .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(35, 35, 35)
                .addComponent(jLabel2)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jLabel1)
                .addGap(3, 3, 3)
                .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(26, 26, 26)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jButton1)
                    .addComponent(jButton2)
                    .addComponent(jButton3)
                    .addComponent(jButton4))
                .addContainerGap(32, Short.MAX_VALUE))
        );

        pack();
    }// </editor-fold>

    private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    }

    private void jTextField1InputMethodTextChanged(java.awt.event.InputMethodEvent evt) {
```

```
    }

    private void jTextField1KeyPressed(java.awt.event.KeyEvent evt) {
        String keyText = KeyEvent.getKeyText(evt.getKeyCode());
        this.bilangan1 = Integer.parseInt(keyText);
    }

    private void jTextField1KeyReleased(java.awt.event.KeyEvent evt) {
        // TODO add your handling code here:
    }

    private void jTextField1FocusLost(java.awt.event.FocusEvent evt) {
            // TODO add your handling code here:
    }

    private void jTextField1PropertyChange(java.beans.PropertyChangeEvent evt) {

    }

    private void jTextField1MouseExited(java.awt.event.MouseEvent evt) {

    }

    private void jTextField2KeyPressed(java.awt.event.KeyEvent evt) {
        String keyText = KeyEvent.getKeyText(evt.getKeyCode());
        this.bilangan2 = Integer.parseInt(keyText);
    }

    private void jButton1KeyPressed(java.awt.event.KeyEvent evt) {

    }

    private void jButton1MouseClicked(java.awt.event.MouseEvent evt) {
        System.out.println(this.bilangan1 + this.bilangan2);
        JOptionPane.showMessageDialog(null, this.bilangan1 + this.bilangan2, "Hasil
Pertambahan", JOptionPane.INFORMATION_MESSAGE);
    }

    private void jButton2MouseClicked(java.awt.event.MouseEvent evt) {
        System.out.println(this.bilangan1 - this.bilangan2);
        JOptionPane.showMessageDialog(null, this.bilangan1 - this.bilangan2, "Hasil
Pengurangan", JOptionPane.INFORMATION_MESSAGE);
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }
```

```
    private void jButton2KeyPressed(java.awt.event.KeyEvent evt) {
        // TODO add your handling code here:
    }

    private void jButton3MouseClicked(java.awt.event.MouseEvent evt) {
        System.out.println(this.bilangan1 * this.bilangan2);
        JOptionPane.showMessageDialog(null, this.bilangan1 * this.bilangan2, "Hasil
Perkalian", JOptionPane.INFORMATION_MESSAGE);

    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void jButton3KeyPressed(java.awt.event.KeyEvent evt) {
        // TODO add your handling code here:
    }

    private void jButton4MouseClicked(java.awt.event.MouseEvent evt) {
        float hasilBagi = (float)bilangan1 / bilangan2;
        System.out.println(hasilBagi);
        JOptionPane.showMessageDialog(null, hasilBagi, "Hasil Pembagian",
JOptionPane.INFORMATION_MESSAGE);
    }

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void jButton4KeyPressed(java.awt.event.KeyEvent evt) {
        // TODO add your handling code here:
    }

    /**
     * @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(BP1_M1_PostTest_IlhamHafidz.class.getName()).log(jav
a.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(BP1_M1_PostTest_IlhamHafidz.class.getName()).log(jav
a.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(BP1_M1_PostTest_IlhamHafidz.class.getName()).log(jav
a.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(BP1_M1_PostTest_IlhamHafidz.class.getName()).log(jav
a.util.logging.Level.SEVERE, null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new BP1_M1_PostTest_IlhamHafidz().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.JLabel jLabel2;
  private javax.swing.JLabel jLabel3;
  private javax.swing.JTextField jTextField1;
  private javax.swing.JTextField jTextField2;
  // End of variables declaration
}
```

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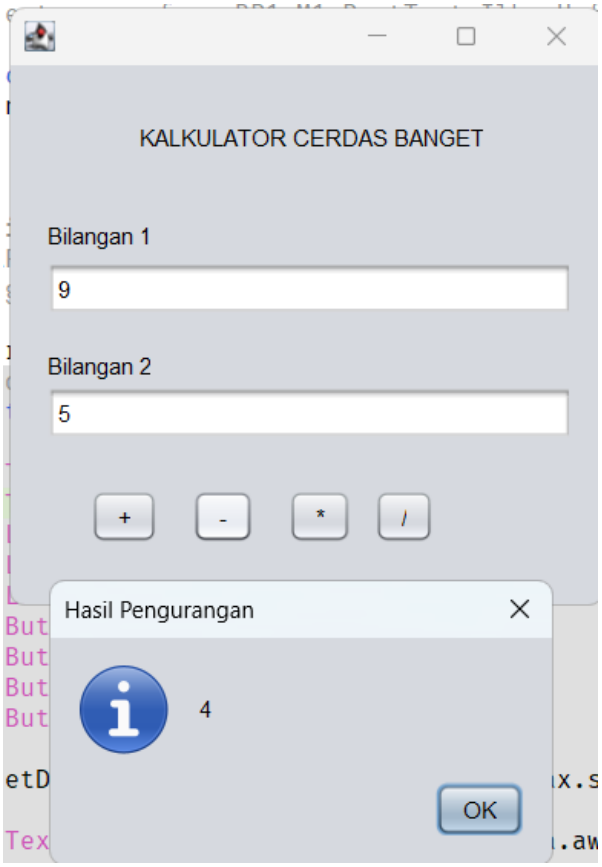
Kelas : TINFC-2022-01

Output :



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