Nama : Restu Lestari Mulianingrum

NIM : A11.2022.14668

Kelompok : A11.4415

**PRAKTIKUM 9**

**Exception**

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| **OverdraftException.java** |
| /\*   \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license   \* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template   \*/  package com.restu;  /\*\*   \*   \* @author Restu   \*/  public class OverdraftException extends Exception {      private final double deficit;      public OverdraftException(String msg, double deficit) {          super(msg);          this.deficit = deficit;      }      public double getDeficit() {          return deficit;      }  } |
| **Account.java** |
| /\*   \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license   \* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template   \*/  package com.restu;  /\*\*   \*   \* @author Restu   \*/  public class Account {      protected double balance;      protected Account(double initBalance) {          balance = initBalance;      }      public double getBalance() {          return balance;      }      public void deposit(double amt) {          balance = balance + amt;      }      public void withdraw(double amt) throws OverdraftException {          if (amt <= balance) {              balance = balance - amt;          } else {              throw new OverdraftException("Dana Anda tidak cukup", amt                      - balance);          }      }  } |
| **tesBank.java** |
| /\*   \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license   \* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template   \*/  package com.restu;  /\*\*   \*   \* @author Restu   \*/  public class tesBank {      public static void main(String[] args) {          int i;          Account[] accounts = new Account[100];          accounts[0] = new Account(2000000);          accounts[1] = new Account(0);          for (i = 0; i < 2; i++) {              double b = accounts[i].getBalance();              System.out.println("Saldo akhir account ke " + i + " = " + b);              try {                  accounts[i].withdraw(1000000);              } catch (OverdraftException ode) {                  System.err.println("" + ode);              }        }      }  } |
| **Output** |
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**Latihan 1 (Program Kalkulator)**

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| **Kalkulator.java** |
| /\*   \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license   \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template   \*/  package com.restu;  /\*\*   \*   \* @author Restu   \*/  public class Kalkulator extends javax.swing.JFrame {      /\*\*       \* Creates new form Kalkulator       \*/      public Kalkulator() {          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">//GEN-BEGIN:initComponents      private void initComponents() {          JOptionPane = new javax.swing.JOptionPane();          judul = new javax.swing.JLabel();          nilai1 = new javax.swing.JLabel();          txtNilai1 = new javax.swing.JTextField();          txtNilai2 = new javax.swing.JTextField();          nilai2 = new javax.swing.JLabel();          btnTambah = new javax.swing.JButton();          btnKali = new javax.swing.JButton();          hasil = new javax.swing.JLabel();          txtHasil = new javax.swing.JTextField();          btnBagi = new javax.swing.JButton();          btnPangkat = new javax.swing.JButton();          btnKurang = new javax.swing.JButton();          btnAkar = new javax.swing.JButton();          setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);          judul.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N          judul.setText("Kalkulator");          judul.setToolTipText("");          nilai1.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N          nilai1.setText("Nilai Pertama");          txtNilai1.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  txtNilai1ActionPerformed(evt);              }          });          txtNilai2.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  txtNilai2ActionPerformed(evt);              }          });          nilai2.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N          nilai2.setText("NIlai Kedua");          btnTambah.setText("Tambah");          btnTambah.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  btnTambahActionPerformed(evt);              }          });          btnKali.setText("Kali");          btnKali.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  btnKaliActionPerformed(evt);              }          });          hasil.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N          hasil.setText("Hasil");          txtHasil.setEditable(false);          txtHasil.setBackground(new java.awt.Color(204, 255, 255));          txtHasil.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  txtHasilActionPerformed(evt);              }          });          btnBagi.setText("Bagi");          btnBagi.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  btnBagiActionPerformed(evt);              }          });          btnPangkat.setText("Pangkat");          btnPangkat.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  btnPangkatActionPerformed(evt);              }          });          btnKurang.setText("Kurang");          btnKurang.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  btnKurangActionPerformed(evt);              }          });          btnAkar.setText("Akar");          btnAkar.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  btnAkarActionPerformed(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()                  .addGap(34, 34, 34)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)                      .addGroup(layout.createSequentialGroup()                          .addComponent(btnKurang)                          .addGap(48, 48, 48)                          .addComponent(btnPangkat))                      .addGroup(layout.createSequentialGroup()                          .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)                              .addGroup(layout.createSequentialGroup()                                  .addComponent(nilai2)                                  .addGap(28, 28, 28)                                  .addComponent(txtNilai2))                              .addGroup(layout.createSequentialGroup()                                  .addComponent(nilai1)                                  .addGap(18, 18, 18)                                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)                                      .addComponent(judul)                                      .addComponent(txtNilai1, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE)))                              .addGroup(layout.createSequentialGroup()                                  .addComponent(hasil)                                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)                                  .addComponent(txtHasil, javax.swing.GroupLayout.PREFERRED\_SIZE, 124, javax.swing.GroupLayout.PREFERRED\_SIZE)))                          .addGap(18, 18, 18)                          .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)                              .addComponent(btnTambah)                              .addComponent(btnKali)                              .addComponent(btnBagi)))                      .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()                          .addComponent(btnAkar)                          .addGap(1, 1, 1)))                  .addContainerGap(37, Short.MAX\_VALUE))          );          layout.setVerticalGroup(              layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)              .addGroup(layout.createSequentialGroup()                  .addGap(22, 22, 22)                  .addComponent(judul)                  .addGap(44, 44, 44)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)                      .addComponent(nilai1)                      .addComponent(txtNilai1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)                      .addComponent(btnTambah))                  .addGap(18, 18, 18)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)                      .addComponent(nilai2)                      .addComponent(txtNilai2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)                      .addComponent(btnKali))                  .addGap(18, 18, 18)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)                      .addComponent(txtHasil, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)                      .addComponent(hasil)                      .addComponent(btnBagi))                  .addGap(18, 18, 18)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)                      .addComponent(btnPangkat)                      .addComponent(btnKurang)                      .addComponent(btnAkar))                  .addContainerGap(32, Short.MAX\_VALUE))          );          pack();      }// </editor-fold>//GEN-END:initComponents      private void btnTambahActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_btnTambahActionPerformed          // TODO add your handling code here:          try {              int n1 = Integer.parseInt(txtNilai1.getText());              int n2 = Integer.parseInt(txtNilai2.getText());              int hasil = n1 + n2;              txtHasil.setText(Integer.toString(hasil));          } catch (NumberFormatException e) {              JOptionPane.showMessageDialog(null, "Data Masih Kosong");          }      }//GEN-LAST:event\_btnTambahActionPerformed      private void btnKaliActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_btnKaliActionPerformed          // TODO add your handling code here:          try {              int n1 = Integer.parseInt(txtNilai1.getText());              int n2 = Integer.parseInt(txtNilai2.getText());              int hasil = n1 \* n2;              txtHasil.setText(Integer.toString(hasil));          } catch (NumberFormatException e) {              JOptionPane.showInternalMessageDialog(null, "Data Masih Kosong");          }      }//GEN-LAST:event\_btnKaliActionPerformed      private void txtHasilActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_txtHasilActionPerformed          // TODO add your handling code here:      }//GEN-LAST:event\_txtHasilActionPerformed      private void txtNilai1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_txtNilai1ActionPerformed          // TODO add your handling code here:      }//GEN-LAST:event\_txtNilai1ActionPerformed      private void txtNilai2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_txtNilai2ActionPerformed          // TODO add your handling code here:      }//GEN-LAST:event\_txtNilai2ActionPerformed      private void btnBagiActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_btnBagiActionPerformed          // TODO add your handling code here:          try {              int n1 = Integer.parseInt(txtNilai1.getText());              int n2 = Integer.parseInt(txtNilai2.getText());              if (n2 == 0) {                  JOptionPane.showMessageDialog(null, "Pembagi tidak boleh nol");              } else {                  int hasil = n1 / n2;                  txtHasil.setText(Integer.toString(hasil));              }          } catch (NumberFormatException e) {              JOptionPane.showMessageDialog(null, "Data Masih Kosong atau Tidak Valid");          }      }//GEN-LAST:event\_btnBagiActionPerformed      private void btnPangkatActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_btnPangkatActionPerformed          // TODO add your handling code here:          try {              int n1 = Integer.parseInt(txtNilai1.getText());              int n2 = Integer.parseInt(txtNilai2.getText());              int hasil = (int) Math.pow(n1, n2);              txtHasil.setText(Integer.toString(hasil));          } catch (NumberFormatException e) {              JOptionPane.showMessageDialog(null, "Data Masih Kosong atau Tidak Valid");          }      }//GEN-LAST:event\_btnPangkatActionPerformed      private void btnKurangActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_btnKurangActionPerformed          // TODO add your handling code here:          try {              int n1 = Integer.parseInt(txtNilai1.getText());              int n2 = Integer.parseInt(txtNilai2.getText());              int hasil = n1 - n2;              txtHasil.setText(Integer.toString(hasil));          } catch (NumberFormatException e) {              JOptionPane.showMessageDialog(null, "Data Masih Kosong atau Tidak Valid");          }      }//GEN-LAST:event\_btnKurangActionPerformed      private void btnAkarActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_btnAkarActionPerformed          // TODO add your handling code here:          try {              int n1 = Integer.parseInt(txtNilai1.getText());              double hasil = Math.sqrt(n1);              txtHasil.setText(Double.toString(hasil));          } catch (NumberFormatException e) {              JOptionPane.showMessageDialog(null, "Data Masih Kosong atau Tidak Valid");          }      }//GEN-LAST:event\_btnAkarActionPerformed      /\*\*       \* @param args the command line arguments       \*/      public static void main(String args[]) {          /\* Set the Nimbus look and feel \*/          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(Kalkulator.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);          } catch (InstantiationException ex) {              java.util.logging.Logger.getLogger(Kalkulator.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);          } catch (IllegalAccessException ex) {              java.util.logging.Logger.getLogger(Kalkulator.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);          } catch (javax.swing.UnsupportedLookAndFeelException ex) {              java.util.logging.Logger.getLogger(Kalkulator.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);          }//<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(Kalkulator.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);          } catch (InstantiationException ex) {              java.util.logging.Logger.getLogger(Kalkulator.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);          } catch (IllegalAccessException ex) {              java.util.logging.Logger.getLogger(Kalkulator.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);          } catch (javax.swing.UnsupportedLookAndFeelException ex) {              java.util.logging.Logger.getLogger(Kalkulator.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 Kalkulator().setVisible(true);              }          });      }      // Variables declaration - do not modify//GEN-BEGIN:variables      private javax.swing.JOptionPane JOptionPane;      private javax.swing.JButton btnAkar;      private javax.swing.JButton btnBagi;      private javax.swing.JButton btnKali;      private javax.swing.JButton btnKurang;      private javax.swing.JButton btnPangkat;      private javax.swing.JButton btnTambah;      private javax.swing.JLabel hasil;      private javax.swing.JLabel judul;      private javax.swing.JLabel nilai1;      private javax.swing.JLabel nilai2;      private javax.swing.JTextField txtHasil;      private javax.swing.JTextField txtNilai1;      private javax.swing.JTextField txtNilai2;      // End of variables declaration//GEN-END:variables  } |
| **Output** |
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**Latihan 2 (Program frmNilai)**

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| --- |
| **frmNilai.java** |
| package com.restu;  import javax.swing.JOptionPane;  /\*   \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license   \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template   \*/  /\*\*   \*   \* @author Restu   \*/  public class Nilai extends javax.swing.JFrame {      /\*\*       \* Creates new form Nilai       \*/      public Nilai() {          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">//GEN-BEGIN:initComponents      private void initComponents() {          jLabel1 = new javax.swing.JLabel();          jLabel2 = new javax.swing.JLabel();          jLabel3 = new javax.swing.JLabel();          jLabel4 = new javax.swing.JLabel();          jLabel5 = new javax.swing.JLabel();          jLabel6 = new javax.swing.JLabel();          jLabel7 = new javax.swing.JLabel();          jLabel8 = new javax.swing.JLabel();          textNim = new javax.swing.JTextField();          textNama = new javax.swing.JTextField();          textTugas = new javax.swing.JTextField();          textUts = new javax.swing.JTextField();          textUas = new javax.swing.JTextField();          na = new javax.swing.JTextField();          nHuruf = new javax.swing.JTextField();          predikat = new javax.swing.JTextField();          jLabel9 = new javax.swing.JLabel();          jLabel10 = new javax.swing.JLabel();          jLabel11 = new javax.swing.JLabel();          naTugas = new javax.swing.JTextField();          naUts = new javax.swing.JTextField();          naUas = new javax.swing.JTextField();          btnHitung = new javax.swing.JButton();          setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);          setTitle("Kalkulator Nilai");          jLabel1.setText("NIM");          jLabel2.setText("Nama");          jLabel3.setText("N. Tugas");          jLabel4.setText("N. UTS");          jLabel5.setText("N. UAS");          jLabel6.setText("N. Akhir");          jLabel7.setText("N. Huruf");          jLabel8.setText("Predikat");          textNim.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  textNimActionPerformed(evt);              }          });          textTugas.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  textTugasActionPerformed(evt);              }          });          textUas.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  textUasActionPerformed(evt);              }          });          na.setEditable(false);          na.setBackground(new java.awt.Color(204, 255, 255));          nHuruf.setEditable(false);          nHuruf.setBackground(new java.awt.Color(204, 255, 255));          predikat.setEditable(false);          predikat.setBackground(new java.awt.Color(204, 255, 255));          jLabel9.setText("35%");          jLabel10.setText("45%");          jLabel11.setText("20%");          naTugas.setEditable(false);          naTugas.setBackground(new java.awt.Color(204, 255, 255));          naTugas.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  naTugasActionPerformed(evt);              }          });          naUts.setEditable(false);          naUts.setBackground(new java.awt.Color(204, 255, 255));          naUas.setEditable(false);          naUas.setBackground(new java.awt.Color(204, 255, 255));          btnHitung.setText("Hitung");          btnHitung.addActionListener(new java.awt.event.ActionListener() {              public void actionPerformed(java.awt.event.ActionEvent evt) {                  btnHitungActionPerformed(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()                  .addGap(42, 42, 42)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)                      .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)                      .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)                      .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT\_SIZE, 60, Short.MAX\_VALUE)                      .addComponent(jLabel4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)                      .addComponent(jLabel5, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)                      .addComponent(jLabel6, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)                      .addComponent(jLabel7, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)                      .addComponent(jLabel8, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)                      .addComponent(na, javax.swing.GroupLayout.PREFERRED\_SIZE, 71, javax.swing.GroupLayout.PREFERRED\_SIZE)                      .addComponent(nHuruf, javax.swing.GroupLayout.PREFERRED\_SIZE, 71, javax.swing.GroupLayout.PREFERRED\_SIZE)                      .addGroup(layout.createSequentialGroup()                          .addComponent(predikat, javax.swing.GroupLayout.PREFERRED\_SIZE, 71, javax.swing.GroupLayout.PREFERRED\_SIZE)                          .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)                          .addComponent(btnHitung))                      .addGroup(layout.createSequentialGroup()                          .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)                              .addComponent(textUts, javax.swing.GroupLayout.PREFERRED\_SIZE, 71, javax.swing.GroupLayout.PREFERRED\_SIZE)                              .addComponent(textUas, javax.swing.GroupLayout.PREFERRED\_SIZE, 71, javax.swing.GroupLayout.PREFERRED\_SIZE)                              .addComponent(textTugas, javax.swing.GroupLayout.PREFERRED\_SIZE, 71, javax.swing.GroupLayout.PREFERRED\_SIZE))                          .addGap(28, 28, 28)                          .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)                              .addGroup(layout.createSequentialGroup()                                  .addComponent(jLabel11, javax.swing.GroupLayout.PREFERRED\_SIZE, 43, javax.swing.GroupLayout.PREFERRED\_SIZE)                                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)                                  .addComponent(naTugas))                              .addGroup(layout.createSequentialGroup()                                  .addComponent(jLabel10, javax.swing.GroupLayout.PREFERRED\_SIZE, 43, javax.swing.GroupLayout.PREFERRED\_SIZE)                                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)                                  .addComponent(naUas, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE))                              .addGroup(layout.createSequentialGroup()                                  .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)                                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)                                  .addComponent(naUts, javax.swing.GroupLayout.PREFERRED\_SIZE, 77, javax.swing.GroupLayout.PREFERRED\_SIZE))))                      .addComponent(textNim)                      .addComponent(textNama))                  .addContainerGap(67, Short.MAX\_VALUE))          );          layout.setVerticalGroup(              layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)              .addGroup(layout.createSequentialGroup()                  .addGap(22, 22, 22)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)                      .addComponent(jLabel1)                      .addComponent(textNim, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)                      .addComponent(jLabel2)                      .addComponent(textNama, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)                      .addComponent(jLabel3)                      .addComponent(textTugas, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)                      .addComponent(jLabel11)                      .addComponent(naTugas, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)                      .addComponent(jLabel4)                      .addComponent(textUts, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)                      .addComponent(jLabel9)                      .addComponent(naUts, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)                      .addComponent(jLabel5)                      .addComponent(textUas, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)                      .addComponent(jLabel10)                      .addComponent(naUas, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)                      .addComponent(jLabel6)                      .addComponent(na, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)                      .addComponent(jLabel7)                      .addComponent(nHuruf, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))                  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)                  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)                      .addComponent(jLabel8)                      .addComponent(predikat, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)                      .addComponent(btnHitung))                  .addContainerGap(59, Short.MAX\_VALUE))          );          pack();      }// </editor-fold>//GEN-END:initComponents      private void textNimActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_textNimActionPerformed          // TODO add your handling code here:      }//GEN-LAST:event\_textNimActionPerformed      private void textTugasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_textTugasActionPerformed          // TODO add your handling code here:      }//GEN-LAST:event\_textTugasActionPerformed      private void textUasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_textUasActionPerformed          // TODO add your handling code here:      }//GEN-LAST:event\_textUasActionPerformed      private void btnHitungActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_btnHitungActionPerformed          // TODO add your handling code here:          try {              int nt = Integer.parseInt(textTugas.getText()) \* 20/100;              naTugas.setText(Integer.toString(nt));              int nuts = Integer.parseInt(textUts.getText()) \* 35/100;              naUts.setText(Integer.toString(nuts));              int nuas = Integer.parseInt(textUas.getText()) \* 45/100;              naUas.setText(Integer.toString(nuas));              int nakhir = nt+nuts+nuas;              na.setText(Integer.toString(nakhir));                if(nakhir>=85) {                  nHuruf.setText("A");                  predikat.setText("Apik");              }else if(nakhir>=70 && nakhir<85) {                  nHuruf.setText("B");                  predikat.setText("Baik");              }else if(nakhir>=60 && nakhir<70) {                  nHuruf.setText("C");                  predikat.setText("Cukup");              }else if(nakhir>=60 && nakhir<60) {                  nHuruf.setText("D");                  predikat.setText("Dablek");              }else {                  nHuruf.setText("E");                  predikat.setText("Elek");              }          }          catch(NumberFormatException e) {              JOptionPane.showInternalMessageDialog(null, "Data Masih Kosong");          }      }//GEN-LAST:event\_btnHitungActionPerformed      private void naTugasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_naTugasActionPerformed          // TODO add your handling code here:      }//GEN-LAST:event\_naTugasActionPerformed      /\*\*       \* @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(Nilai.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);          } catch (InstantiationException ex) {              java.util.logging.Logger.getLogger(Nilai.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);          } catch (IllegalAccessException ex) {              java.util.logging.Logger.getLogger(Nilai.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);          } catch (javax.swing.UnsupportedLookAndFeelException ex) {              java.util.logging.Logger.getLogger(Nilai.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 Nilai().setVisible(true);              }          });      }      // Variables declaration - do not modify//GEN-BEGIN:variables      private javax.swing.JButton btnHitung;      private javax.swing.JLabel jLabel1;      private javax.swing.JLabel jLabel10;      private javax.swing.JLabel jLabel11;      private javax.swing.JLabel jLabel2;      private javax.swing.JLabel jLabel3;      private javax.swing.JLabel jLabel4;      private javax.swing.JLabel jLabel5;      private javax.swing.JLabel jLabel6;      private javax.swing.JLabel jLabel7;      private javax.swing.JLabel jLabel8;      private javax.swing.JLabel jLabel9;      private javax.swing.JTextField nHuruf;      private javax.swing.JTextField na;      private javax.swing.JTextField naTugas;      private javax.swing.JTextField naUas;      private javax.swing.JTextField naUts;      private javax.swing.JTextField predikat;      private javax.swing.JTextField textNama;      private javax.swing.JTextField textNim;      private javax.swing.JTextField textTugas;      private javax.swing.JTextField textUas;      private javax.swing.JTextField textUts;      // End of variables declaration//GEN-END:variables  } |
| **Output** |
|  |