# **LAPORAN**

**PEMROGRAMAN BERORIENTASI OBJEK**

**SEMESTER GANJIL T.A 2019/2020**

**KALKULATOR BANGUN DATAR DAN BANGUN RUANG**

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**PROGRAM STUDI SISTEM INFORMASI**

**JURUSAN SISTEM INFORMASI**

**FAKULTAS TEKNIK INDUSTRI**

**UNIVERSITAS PEMBANGUNAN NASIONAL ”VETERAN”**

**YOGYAKARTA**

**2019**

**1. Listing**

**a. Listing package main**

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| package project.main;  import java.awt.FlowLayout;  import static java.awt.FlowLayout.CENTER;  import project.bangundatar.view.Trapesium;  import project.bangundatar.view.Segitiga;  import project.bangundatar.view.PersegiPanjang;  import project.bangundatar.view.Persegi;  import project.bangundatar.view.Lingkaran;  import project.bangundatar.view.LayangLayang;  import project.bangundatar.view.BelahKetupat;  import project.bangundatar.view.JajarGenjang;  import project.bangunruang.view.Balok;  import project.bangunruang.view.Bola;  import project.bangunruang.view.Kerucut;  import project.bangunruang.view.Kubus;  import project.bangunruang.view.Limas;  import project.bangunruang.view.Prisma;  import project.bangunruang.view.Tabung;  public class MainMenu extends javax.swing.JFrame {  /\*\*  \* Creates new form MainMenu  \*/  public MainMenu() {  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() {  MainMenu = new javax.swing.JPanel();  ForLogo = new javax.swing.JLabel();  Judul = new javax.swing.JLabel();  Garis = new javax.swing.JPanel();  Logo = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  Persegi = new javax.swing.JButton();  PersegiPanjang = new javax.swing.JButton();  Segitiga = new javax.swing.JButton();  LayangLayang = new javax.swing.JButton();  BelahKetupat = new javax.swing.JButton();  Lingkaran = new javax.swing.JButton();  Trapesium = new javax.swing.JButton();  BJajarGenjang = new javax.swing.JButton();  jPanel4 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  CaturRahmat1 = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  jPanel3 = new javax.swing.JPanel();  Balok = new javax.swing.JButton();  Tabung = new javax.swing.JButton();  Kubus = new javax.swing.JButton();  Prisma = new javax.swing.JButton();  Kerucut = new javax.swing.JButton();  Bola = new javax.swing.JButton();  Limas = new javax.swing.JButton();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel3 = new javax.swing.JLabel();  Garis1 = new javax.swing.JPanel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setBackground(new java.awt.Color(255, 255, 255));  setBounds(new java.awt.Rectangle(0, 0, 0, 0));  setFocusTraversalPolicyProvider(true);  setResizable(false);  MainMenu.setBackground(new java.awt.Color(165, 224, 243));  MainMenu.setFocusable(false);  MainMenu.setPreferredSize(new java.awt.Dimension(868, 570));  MainMenu.setRequestFocusEnabled(false);  MainMenu.setVerifyInputWhenFocusTarget(false);  ForLogo.setBackground(new java.awt.Color(51, 255, 0));  ForLogo.setFont(new java.awt.Font("Vivaldi", 3, 24)); // NOI18N  ForLogo.setForeground(new java.awt.Color(0, 102, 255));  ForLogo.setText("For Geometry and Two Dimension ");  Judul.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  Garis.setBackground(new java.awt.Color(255, 255, 0));  Garis.setPreferredSize(new java.awt.Dimension(0, 5));  javax.swing.GroupLayout GarisLayout = new javax.swing.GroupLayout(Garis);  Garis.setLayout(GarisLayout);  GarisLayout.setHorizontalGroup(  GarisLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  GarisLayout.setVerticalGroup(  GarisLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 5, Short.MAX\_VALUE)  );  Logo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(204, 255, 255));  jPanel2.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED));  Persegi.setBackground(new java.awt.Color(102, 204, 255));  Persegi.setText("PERSEGI");  Persegi.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  Persegi.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  PersegiActionPerformed(evt);  }  });  PersegiPanjang.setBackground(new java.awt.Color(102, 204, 255));  PersegiPanjang.setText("PERSEGI PANJANG");  PersegiPanjang.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  PersegiPanjang.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  PersegiPanjangActionPerformed(evt);  }  });  Segitiga.setBackground(new java.awt.Color(102, 204, 255));  Segitiga.setText("SEGITIGA");  Segitiga.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  Segitiga.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  SegitigaActionPerformed(evt);  }  });  LayangLayang.setBackground(new java.awt.Color(102, 204, 255));  LayangLayang.setText("LAYANG LAYANG");  LayangLayang.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  LayangLayang.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  LayangLayangActionPerformed(evt);  }  });  BelahKetupat.setBackground(new java.awt.Color(102, 204, 255));  BelahKetupat.setText("BELAH KETUPAT");  BelahKetupat.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  BelahKetupat.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BelahKetupatActionPerformed(evt);  }  });  Lingkaran.setBackground(new java.awt.Color(102, 204, 255));  Lingkaran.setText("LINGKARAN");  Lingkaran.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  Lingkaran.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  LingkaranActionPerformed(evt);  }  });  Trapesium.setBackground(new java.awt.Color(102, 204, 255));  Trapesium.setText("TRAPESIUM");  Trapesium.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  Trapesium.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  TrapesiumActionPerformed(evt);  }  });  BJajarGenjang.setBackground(new java.awt.Color(102, 204, 255));  BJajarGenjang.setText("JAJAR GENJANG");  BJajarGenjang.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  BJajarGenjang.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BJajarGenjangActionPerformed(evt);  }  });  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel2Layout.createSequentialGroup()  .addGap(35, 35, 35)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addGroup(jPanel2Layout.createSequentialGroup()  .addComponent(Lingkaran, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 26, Short.MAX\_VALUE)  .addComponent(BJajarGenjang, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel2Layout.createSequentialGroup()  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LayangLayang, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(Segitiga, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(Persegi, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(26, 26, 26)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, 123, Short.MAX\_VALUE)  .addComponent(BelahKetupat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(Trapesium, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))  .addContainerGap(33, Short.MAX\_VALUE))  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel2Layout.createSequentialGroup()  .addGap(23, 23, 23)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(Persegi, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(33, 33, 33)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BelahKetupat, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(Segitiga, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(33, 33, 33)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(LayangLayang, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(Trapesium, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(36, 36, 36)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(Lingkaran, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BJajarGenjang, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  );  jPanel4.setBackground(new java.awt.Color(102, 153, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  CaturRahmat1.setText("Created by :");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);  jPanel4.setLayout(jPanel4Layout);  jPanel4Layout.setHorizontalGroup(  jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel4Layout.createSequentialGroup()  .addContainerGap()  .addComponent(CaturRahmat1)  .addGap(18, 18, 18)  .addComponent(CaturRahmat)  .addGap(94, 94, 94)  .addComponent(YoffanAlfiatur)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(AlexMasrobi)  .addGap(103, 103, 103)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(jLabel6)  .addGap(2, 2, 2))  );  jPanel4Layout.setVerticalGroup(  jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(CaturRahmat1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel4Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(NetbeansLogo, javax.swing.GroupLayout.Alignment.TRAILING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jLabel6)  .addComponent(JavaLogo))))  );  jPanel3.setBackground(new java.awt.Color(204, 255, 255));  jPanel3.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED));  Balok.setBackground(new java.awt.Color(51, 153, 255));  Balok.setText("BALOK");  Balok.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  Balok.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BalokActionPerformed(evt);  }  });  Tabung.setBackground(new java.awt.Color(51, 153, 255));  Tabung.setText("TABUNG");  Tabung.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  Tabung.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  TabungActionPerformed(evt);  }  });  Kubus.setBackground(new java.awt.Color(51, 153, 255));  Kubus.setText("KUBUS");  Kubus.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  Kubus.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  KubusActionPerformed(evt);  }  });  Prisma.setBackground(new java.awt.Color(51, 153, 255));  Prisma.setText("PRISMA");  Prisma.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  Prisma.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  PrismaActionPerformed(evt);  }  });  Kerucut.setBackground(new java.awt.Color(51, 153, 255));  Kerucut.setText("KERUCUT");  Kerucut.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  Kerucut.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  KerucutActionPerformed(evt);  }  });  Bola.setBackground(new java.awt.Color(51, 153, 255));  Bola.setText("BOLA");  Bola.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  Bola.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BolaActionPerformed(evt);  }  });  Limas.setBackground(new java.awt.Color(51, 153, 255));  Limas.setText("LIMAS");  Limas.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  Limas.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  LimasActionPerformed(evt);  }  });  javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);  jPanel3.setLayout(jPanel3Layout);  jPanel3Layout.setHorizontalGroup(  jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel3Layout.createSequentialGroup()  .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel3Layout.createSequentialGroup()  .addGap(35, 35, 35)  .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addGroup(jPanel3Layout.createSequentialGroup()  .addComponent(Kubus, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 52, Short.MAX\_VALUE)  .addComponent(Balok, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel3Layout.createSequentialGroup()  .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(Prisma, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(Tabung, javax.swing.GroupLayout.DEFAULT\_SIZE, 123, Short.MAX\_VALUE))  .addGap(52, 52, 52)  .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(Limas, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(Kerucut, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE)))))  .addGroup(jPanel3Layout.createSequentialGroup()  .addGap(117, 117, 117)  .addComponent(Bola, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addContainerGap(30, Short.MAX\_VALUE))  );  jPanel3Layout.setVerticalGroup(  jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel3Layout.createSequentialGroup()  .addGap(23, 23, 23)  .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(Kubus, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(Balok, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(33, 33, 33)  .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(Kerucut, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(Tabung, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(33, 33, 33)  .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(Prisma, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(Limas, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(37, 37, 37)  .addComponent(Bola, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap(51, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Categories-system-help-icon.png"))); // NOI18N  jLabel2.addMouseListener(new java.awt.event.MouseAdapter() {  public void mouseClicked(java.awt.event.MouseEvent evt) {  jLabel2MouseClicked(evt);  }  });  jLabel3.setText("About this Application?");  Garis1.setBackground(new java.awt.Color(0, 204, 0));  Garis1.setPreferredSize(new java.awt.Dimension(0, 3));  javax.swing.GroupLayout Garis1Layout = new javax.swing.GroupLayout(Garis1);  Garis1.setLayout(Garis1Layout);  Garis1Layout.setHorizontalGroup(  Garis1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  Garis1Layout.setVerticalGroup(  Garis1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 3, Short.MAX\_VALUE)  );  javax.swing.GroupLayout MainMenuLayout = new javax.swing.GroupLayout(MainMenu);  MainMenu.setLayout(MainMenuLayout);  MainMenuLayout.setHorizontalGroup(  MainMenuLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, MainMenuLayout.createSequentialGroup()  .addGap(47, 47, 47)  .addComponent(jLabel1)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(Judul)  .addGap(224, 224, 224)  .addComponent(Logo)  .addGap(48, 48, 48))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, MainMenuLayout.createSequentialGroup()  .addContainerGap()  .addComponent(Garis, javax.swing.GroupLayout.DEFAULT\_SIZE, 848, Short.MAX\_VALUE)  .addContainerGap())  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, MainMenuLayout.createSequentialGroup()  .addContainerGap()  .addComponent(jPanel4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addContainerGap())  .addGroup(MainMenuLayout.createSequentialGroup()  .addContainerGap()  .addComponent(Garis1, javax.swing.GroupLayout.DEFAULT\_SIZE, 848, Short.MAX\_VALUE)  .addContainerGap())  .addGroup(MainMenuLayout.createSequentialGroup()  .addGap(53, 53, 53)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(51, 51, 51)  .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap(53, Short.MAX\_VALUE))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, MainMenuLayout.createSequentialGroup()  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addGroup(MainMenuLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, MainMenuLayout.createSequentialGroup()  .addComponent(ForLogo)  .addGap(264, 264, 264))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, MainMenuLayout.createSequentialGroup()  .addComponent(jLabel3)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(jLabel2)  .addGap(38, 38, 38))))  );  MainMenuLayout.setVerticalGroup(  MainMenuLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(MainMenuLayout.createSequentialGroup()  .addGroup(MainMenuLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, MainMenuLayout.createSequentialGroup()  .addComponent(Logo)  .addGap(18, 18, 18))  .addComponent(Judul, javax.swing.GroupLayout.PREFERRED\_SIZE, 88, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, MainMenuLayout.createSequentialGroup()  .addComponent(jLabel1)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)))  .addComponent(Garis, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(Garis1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(11, 11, 11)  .addGroup(MainMenuLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addGap(18, 18, 18)  .addComponent(ForLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 9, Short.MAX\_VALUE)  .addGroup(MainMenuLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jLabel3, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 32, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(jLabel2, javax.swing.GroupLayout.Alignment.TRAILING))  .addGap(18, 18, 18)  .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(MainMenu, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(MainMenu, javax.swing.GroupLayout.DEFAULT\_SIZE, 569, Short.MAX\_VALUE)  .addGap(0, 0, 0))  );  setSize(new java.awt.Dimension(884, 608));  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void PersegiPanjangActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_PersegiPanjangActionPerformed  PersegiPanjang persegiPanjang;  persegiPanjang = new PersegiPanjang();  persegiPanjang.setVisible(true);  this.dispose();  }//GEN-LAST:event\_PersegiPanjangActionPerformed  private void TabungActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_TabungActionPerformed  Tabung tabung;  tabung = new Tabung();  tabung.setVisible(true);  this.dispose(); // TODO add your handling code here:  }//GEN-LAST:event\_TabungActionPerformed  private void SegitigaActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_SegitigaActionPerformed  Segitiga segitiga;  segitiga = new Segitiga();  segitiga.setVisible(true);  this.dispose();  }//GEN-LAST:event\_SegitigaActionPerformed  private void PersegiActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_PersegiActionPerformed  Persegi persegi;  persegi = new Persegi();  persegi.setVisible(true);  this.dispose();  }//GEN-LAST:event\_PersegiActionPerformed  private void BelahKetupatActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BelahKetupatActionPerformed  BelahKetupat belahKetupat;  belahKetupat = new BelahKetupat();  belahKetupat.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BelahKetupatActionPerformed  private void LayangLayangActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_LayangLayangActionPerformed  LayangLayang layangLayang;  layangLayang = new LayangLayang();  layangLayang.setVisible(true);  this.dispose();  }//GEN-LAST:event\_LayangLayangActionPerformed  private void TrapesiumActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_TrapesiumActionPerformed  Trapesium trapesium;  trapesium = new Trapesium();  trapesium.setVisible(true);  this.dispose(); // TODO add your handling code here:  }//GEN-LAST:event\_TrapesiumActionPerformed  private void LingkaranActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_LingkaranActionPerformed  Lingkaran lingkaran;  lingkaran = new Lingkaran();  lingkaran.setVisible(true);  this.dispose();  // TODO add your handling code here:  }//GEN-LAST:event\_LingkaranActionPerformed  private void BalokActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BalokActionPerformed  Balok balok;  balok = new Balok();  balok.setVisible(true);  this.dispose();// TODO add your handling code here:  }//GEN-LAST:event\_BalokActionPerformed  private void KubusActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_KubusActionPerformed  Kubus kubus;  kubus = new Kubus();  kubus.setVisible(true);  this.dispose();  }//GEN-LAST:event\_KubusActionPerformed  private void BolaActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BolaActionPerformed  Bola bola;  bola = new Bola();  bola.setVisible(true);  this.dispose(); // TODO add your handling code here:  }//GEN-LAST:event\_BolaActionPerformed  private void PrismaActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_PrismaActionPerformed  Prisma prismaSegitiga;  prismaSegitiga = new Prisma();  prismaSegitiga.setVisible(true);  this.dispose(); // TODO add your handling code here:  }//GEN-LAST:event\_PrismaActionPerformed  private void LimasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_LimasActionPerformed  Limas limas;  limas = new Limas();  limas.setVisible(true);  this.dispose(); // TODO add your handling code here:  }//GEN-LAST:event\_LimasActionPerformed  private void KerucutActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_KerucutActionPerformed  Kerucut kerucut;  kerucut = new Kerucut();  kerucut.setVisible(true);  this.dispose(); // TODO add your handling code here:  }//GEN-LAST:event\_KerucutActionPerformed  private void jLabel2MouseClicked(java.awt.event.MouseEvent evt) {//GEN-FIRST:event\_jLabel2MouseClicked  Bantuan bantuan;  bantuan = new Bantuan();  bantuan.setVisible(true);  this.dispose();  // TODO add your handling code here:  }//GEN-LAST:event\_jLabel2MouseClicked  private void BJajarGenjangActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BJajarGenjangActionPerformed  JajarGenjang jajarGenjang;  jajarGenjang = new JajarGenjang();  jajarGenjang.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BJajarGenjangActionPerformed  /\*\*  \* @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(MainMenu.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(MainMenu.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(MainMenu.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(MainMenu.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() {  MainMenu menu = new MainMenu();  menu.setVisible(true);    }  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BJajarGenjang;  private javax.swing.JButton Balok;  private javax.swing.JButton BelahKetupat;  private javax.swing.JButton Bola;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JLabel CaturRahmat1;  private javax.swing.JLabel ForLogo;  private javax.swing.JPanel Garis;  private javax.swing.JPanel Garis1;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel Judul;  private javax.swing.JButton Kerucut;  private javax.swing.JButton Kubus;  private javax.swing.JButton LayangLayang;  private javax.swing.JButton Limas;  private javax.swing.JButton Lingkaran;  private javax.swing.JLabel Logo;  public javax.swing.JPanel MainMenu;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JButton Persegi;  private javax.swing.JButton PersegiPanjang;  private javax.swing.JButton Prisma;  private javax.swing.JButton Segitiga;  private javax.swing.JButton Tabung;  private javax.swing.JButton Trapesium;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel3;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel2;  private javax.swing.JPanel jPanel3;  private javax.swing.JPanel jPanel4;  // End of variables declaration//GEN-END:variables  } |

**Listing 1.1** MainMenu.java

|  |
| --- |
| package project.main;  import project.bangunruang.view.\*;  import project.bangundatar.view.\*;  import project.main.MainMenu;  public class Bantuan extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public Bantuan() {  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() {  PersegiPanjang = new javax.swing.JPanel();  Logo = new javax.swing.JLabel();  LogoUPN = new javax.swing.JLabel();  Garis1 = new javax.swing.JPanel();  Tentang = new javax.swing.JLabel();  Keterangan = new javax.swing.JLabel();  Dibuat = new javax.swing.JLabel();  Nama1 = new javax.swing.JLabel();  Nama2 = new javax.swing.JLabel();  Nama3 = new javax.swing.JLabel();  upn = new javax.swing.JLabel();  SistemInformasi = new javax.swing.JLabel();  TahunAngkatan = new javax.swing.JLabel();  Garis = new javax.swing.JPanel();  FotoCatur = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel3 = new javax.swing.JLabel();  jLabel5 = new javax.swing.JLabel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(0, 204, 255));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "BANTUAN DAN INFO", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  Logo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  LogoUPN.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  Garis1.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout Garis1Layout = new javax.swing.GroupLayout(Garis1);  Garis1.setLayout(Garis1Layout);  Garis1Layout.setHorizontalGroup(  Garis1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  Garis1Layout.setVerticalGroup(  Garis1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  Tentang.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N  Tentang.setText("TENTANG APLIKASI");  Keterangan.setFont(new java.awt.Font("Tahoma", 0, 12)); // NOI18N  Keterangan.setText("APLIKASI INI DIBUAT SEBAGAI PROJECT SEMESTER 3 MATA KULIAH PEMROGRAMAN BERORIENTASI OBYEK YANG DI BIMBING OLEH Bapak Novrido Charibaldi, S.KO");  Dibuat.setFont(new java.awt.Font("Tahoma", 1, 11)); // NOI18N  Dibuat.setText("Dibuat Oleh");  Nama1.setBackground(new java.awt.Color(255, 255, 255));  Nama1.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  Nama1.setText("2. Catur Rahmat (124180026)");  Nama2.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  Nama2.setText("3. Alex Masrobi (124180029)");  Nama3.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  Nama3.setText("1. Yoffan Alfiatur R (124180025)");  upn.setFont(new java.awt.Font("Arial", 1, 14)); // NOI18N  upn.setText("UPN VETERAN YOGYAKARTA");  SistemInformasi.setFont(new java.awt.Font("Arial", 1, 12)); // NOI18N  SistemInformasi.setText("Sistem Informasi 2018");  TahunAngkatan.setText("@Copyright2019");  Garis.setBackground(new java.awt.Color(0, 204, 51));  javax.swing.GroupLayout GarisLayout = new javax.swing.GroupLayout(Garis);  Garis.setLayout(GarisLayout);  GarisLayout.setHorizontalGroup(  GarisLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  GarisLayout.setVerticalGroup(  GarisLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  FotoCatur.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_1dsc\_3111\_copy.jpg"))); // NOI18N  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_yoffan.jpg"))); // NOI18N  jLabel3.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_alex.jpg"))); // NOI18N  jLabel3.addMouseMotionListener(new java.awt.event.MouseMotionAdapter() {  public void mouseMoved(java.awt.event.MouseEvent evt) {  jLabel3MouseMoved(evt);  }  });  jLabel5.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Home-icon.png"))); // NOI18N  jLabel5.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED));  jLabel5.addMouseListener(new java.awt.event.MouseAdapter() {  public void mouseClicked(java.awt.event.MouseEvent evt) {  jLabel5MouseClicked(evt);  }  });  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(SistemInformasi)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(TahunAngkatan)  .addGap(16, 16, 16)))  .addGap(393, 393, 393)  .addComponent(jLabel5)  .addContainerGap())  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addComponent(Logo)  .addGap(298, 298, 298)  .addComponent(LogoUPN)  .addGap(29, 29, 29))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addComponent(Tentang)  .addGap(418, 418, 418))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addComponent(Dibuat)  .addGap(473, 473, 473))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addComponent(upn)  .addGap(400, 400, 400))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(Garis1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(Garis, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(127, 127, 127)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(Nama3)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(41, 41, 41)  .addComponent(jLabel1)))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(167, 167, 167)  .addComponent(FotoCatur)  .addGap(33, 33, 33))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(Nama1)  .addGap(7, 7, 7)))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(151, 151, 151)  .addComponent(jLabel3))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(120, 120, 120)  .addComponent(Nama2))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(54, 54, 54)  .addComponent(Keterangan)))  .addGap(0, 45, Short.MAX\_VALUE)))  .addContainerGap())  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(Logo)  .addComponent(LogoUPN))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 29, Short.MAX\_VALUE)  .addComponent(Garis1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addComponent(Tentang)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addComponent(Keterangan)  .addGap(13, 13, 13)  .addComponent(Dibuat)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 33, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(FotoCatur)  .addComponent(jLabel1)  .addComponent(jLabel3))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(Nama1)  .addComponent(Nama2)  .addComponent(Nama3))  .addGap(18, 35, Short.MAX\_VALUE)  .addComponent(Garis, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(upn)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(SistemInformasi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(TahunAngkatan)  .addContainerGap())  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addComponent(jLabel5)  .addContainerGap())))  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void jLabel3MouseMoved(java.awt.event.MouseEvent evt) {//GEN-FIRST:event\_jLabel3MouseMoved  // TODO add your handling code here:  }//GEN-LAST:event\_jLabel3MouseMoved  private void jLabel5MouseClicked(java.awt.event.MouseEvent evt) {//GEN-FIRST:event\_jLabel5MouseClicked  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_jLabel5MouseClicked  /\*\*  \* @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(Bantuan.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Bantuan.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Bantuan.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Bantuan.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new Bantuan().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel Dibuat;  private javax.swing.JLabel FotoCatur;  private javax.swing.JPanel Garis;  private javax.swing.JPanel Garis1;  private javax.swing.JLabel Keterangan;  private javax.swing.JLabel Logo;  private javax.swing.JLabel LogoUPN;  private javax.swing.JLabel Nama1;  private javax.swing.JLabel Nama2;  private javax.swing.JLabel Nama3;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel SistemInformasi;  private javax.swing.JLabel TahunAngkatan;  private javax.swing.JLabel Tentang;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel3;  private javax.swing.JLabel jLabel5;  private javax.swing.JLabel upn;  // End of variables declaration//GEN-END:variables  } |

**Listing 1.2** Bantuan.java

**b. Listing Package bangundatar**

|  |
| --- |
| package project.bangundatar.controller;  public interface BangunDatar {  void luas();  void keliling();  } |

**Listing 2.1** BangunDatar.java

|  |
| --- |
| package project.bangundatar.controller;  import project.bangundatar.model.Model;  public class CBelahKetupat extends Model implements BangunDatar{  private double diagonal1;  private double diagonal2;  public CBelahKetupat(double diagonal1, double diagonal2) {  super(diagonal1, diagonal2);  this.diagonal1 = diagonal1;  this.diagonal2 = diagonal2;  }  @Override  public void luas() {  setA(diagonal1);  setB(diagonal2);  diagonal1 = getA();  diagonal2 = getB();  setLuas(((0.5)\*diagonal1\*diagonal2));  }  @Override  public void keliling(){  double sisi;  setA(diagonal1);  setB(diagonal2);  diagonal1 = getA();  diagonal2 = getB();  sisi = Math.sqrt(((diagonal1\*diagonal1)+(diagonal2\*diagonal2)));  setKeliling(4\*sisi);  }  } |

**Listing 2.2** CBelahKetupat.java

|  |
| --- |
| package project.bangundatar.controller;  import project.bangundatar.model.Model;  public class CJajarGenjang extends Model implements BangunDatar {  public CJajarGenjang(double alas, double tinggi,double sisiMiring) {  super(alas,tinggi);  setA(alas);  setB(tinggi);  setC(sisiMiring);  }  @Override  public void luas() {  double alas=getA();  double tinggi=getB();  setLuas (alas\*tinggi);  }  @Override  public void keliling() {  double alas=getA();  double tinggi=getB();  double sisiMiring = getC();  setKeliling(2 \* (alas + sisiMiring));  }    } |

**Listing 2.3** CJajarGenjang.java

|  |
| --- |
| package project.bangundatar.controller;  import project.bangundatar.model.Model;  public class CLayangLayang extends Model implements BangunDatar{  private double diagonal1;  private double diagonal2;  private double sisi1;  private double sisi2;  public CLayangLayang(double diagonal1, double diagonal2, double sisi1, double sisi2) {  super(diagonal1, diagonal2,sisi1,sisi2);  this.diagonal1 = diagonal1;  this.diagonal2 = diagonal2;  this.sisi1 = sisi1;  this.sisi2 = sisi2;  }  @Override  public void luas() {  setA(diagonal1);  setB(diagonal2);  diagonal1 = getA();  diagonal2 = getB();  setLuas(((0.5)\*diagonal1\*diagonal2));  }  @Override  public void keliling(){  double sisi;  setC(diagonal1);  setD(diagonal2);  sisi1 = getC();  sisi2 = getD();  setKeliling((2\*sisi1)+(2\*sisi2));  }  } |

**Listing 2.4** CLayangLayang.java

|  |
| --- |
| package project.bangundatar.controller;  import project.bangundatar.model.Model;  public class CLingkaran extends Model implements BangunDatar {  private double jarijari;  public final double PHI = 3.14;  public CLingkaran(double jarijari) {  super(jarijari);  this.jarijari = jarijari;  }  @Override  public void luas() {  setA(jarijari);  jarijari = getA();  setLuas(PHI \* jarijari \* jarijari);  }  @Override  public void keliling(){  setA(jarijari);  jarijari = getA();  setKeliling(2 \* PHI \* jarijari);  }  } |

**Listing 2.5** CLingkaran.java

|  |
| --- |
| package project.bangundatar.controller;  import project.bangundatar.model.Model;  public class CPersegi extends Model implements BangunDatar {  double sisi;  public CPersegi(double sisi) {  super(sisi);  this.sisi = sisi;  }  @Override  public void luas() {  setA(sisi);  sisi = getA();  setLuas(sisi\*sisi);  }  @Override  public void keliling(){  setA(sisi);  sisi = getA();  setKeliling(sisi+sisi+sisi+sisi);  }  } |

**Listing 2.6** CPersegi.java

|  |
| --- |
| package project.bangundatar.controller;  import project.bangundatar.model.Model;  public class CPersegiPanjang extends Model implements BangunDatar{  public double panjang;  private double lebar;  public CPersegiPanjang(double panjang, double lebar) {  super(panjang, lebar);  this.panjang = panjang;  this.lebar = lebar;  }  @Override  public void luas() {  setA(panjang);  setB(lebar);  panjang = getA();  lebar = getB();  setLuas(panjang\*lebar);  }  @Override  public void keliling(){  setA(panjang);  setB(lebar);  panjang = getA();  lebar = getB();  setKeliling((2 \* panjang)+(2 \* lebar));  }  } |

**Listing 2.7** CPersegiPanjang.java

|  |
| --- |
| package project.bangundatar.controller;  import project.bangundatar.model.Model;  public class CSegitiga extends Model implements BangunDatar{  private double alas;  private double tinggi;  public CSegitiga(double alas, double tinggi) {  super(alas, tinggi);  this.alas = alas;  this.tinggi = tinggi;  }  @Override  public void luas() {  setA(alas);  setB(tinggi);  alas = getA();  tinggi = getB();  setLuas((0.5)\*(alas\*tinggi));  }  @Override  public void keliling(){  double sisimiring;  setA(alas);  setB(tinggi);  alas = getA();  tinggi = getB();  sisimiring = Math.sqrt(((alas\*alas)+(tinggi\*tinggi)));  setKeliling(alas + (2\*(sisimiring)));  }  } |

**Listing 2.8** CSegitiga.java

|  |
| --- |
| package project.bangundatar.controller;  import project.bangundatar.model.Model;  public class CTrapesium extends Model implements BangunDatar{  private double sisi1;  private double sisi2;  private double tinggi;  public CTrapesium(double sisi1, double sisi2, double tinggi) {  super(sisi1,sisi2,tinggi);  this.tinggi = tinggi;  this.sisi1 = sisi1;  this.sisi2 = sisi2;  }  @Override  public void luas() {  setA(sisi1);  setB(sisi2);  setC(tinggi);  sisi1 = getA();  sisi2 = getB();  tinggi = getC();  setLuas((0.5)\*(sisi1+sisi2)\*(tinggi));  }  @Override  public void keliling(){  double sisimiring;  setA(sisi1);  setB(sisi2);  setC(tinggi);  sisi1 = getA();  sisi2 = getB();  tinggi = getC();  sisimiring = Math.sqrt(((sisi2-sisi1)/2)\*((sisi2-sisi1)/2)+(tinggi\*tinggi));  setKeliling((2\*sisimiring)+(sisi1+sisi2));  }  } |

**Listing 2.9** CTrapesium.java

|  |
| --- |
| package project.bangundatar.model;  public class Model {  public double getD() {  return d;  }  public void setD(double d) {  this.d = d;  }  private double a;  private double b;  private double c;  private double d;  private double luas;  private double keliling;  private double volume;  private double luasPermukaan;  public Model(double a){  this.a = a;  }  public Model(double a, double b){  this.a = a;  this.b = b;  }  public Model(double a, double b,double c){  this.a = a;  this.b = b;  this.c = c;  }  public Model(double a, double b,double c,double d){  this.a = a;  this.b = b;  this.c = c;  this.d = d;  }  public void setA(double a) {  this.a = a;  }  public double getB() {  return b;  }  public void setB(double b) {  this.b = b;  }  public double getA() {  return a;  }  public double getLuas() {  return luas;  }  public void setLuas(double luas) {  this.luas = luas;  }  public double getKeliling() {  return keliling;  }  public void setKeliling(double keliling) {  this.keliling = keliling;  }  public double getVolume() {  return volume;  }  public void setVolume(double volume) {  this.volume = volume;  }  public double getLuasPermukaan() {  return luasPermukaan;  }  public void setLuasPermukaan(double luasPermukaan) {  this.luasPermukaan = luasPermukaan;  }  public double getC() {  return c;  }  public void setC(double c) {  this.c = c;  }  } |

**Listing 2.10** Model.java

|  |
| --- |
| package project.bangundatar.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.controller.CBelahKetupat;  import project.main.MainMenu;  public class BelahKetupat extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public BelahKetupat() {  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() {  PersegiPanjang = new javax.swing.JPanel();  LblMassukandiagonal = new javax.swing.JLabel();  IDiagonal1 = new javax.swing.JTextField();  BtnReset = new javax.swing.JButton();  BtnHitung = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanDiagonal2 = new javax.swing.JLabel();  IDiagonal2 = new javax.swing.JTextField();  LblKeliling = new javax.swing.JLabel();  LblLuas = new javax.swing.JLabel();  OKeliling = new javax.swing.JTextField();  OLuas = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(102, 153, 255));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR BELAH KETUPAT", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  LblMassukandiagonal.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukandiagonal.setText("Massukan Diagonal 1 ");  IDiagonal1.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IDiagonal1ActionPerformed(evt);  }  });  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnHitung.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnHitung.setText("Hitung");  BtnHitung.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnHitungActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanDiagonal2.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanDiagonal2.setText("Massukan Diagonal 2 ");  IDiagonal2.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IDiagonal2ActionPerformed(evt);  }  });  LblKeliling.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblKeliling.setText("Keliling");  LblLuas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuas.setText("Luas");  OKeliling.setEditable(false);  OKeliling.setBackground(new java.awt.Color(204, 204, 204));  OKeliling.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OKelilingActionPerformed(evt);  }  });  OLuas.setEditable(false);  OLuas.setBackground(new java.awt.Color(204, 204, 204));  OLuas.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukandiagonal)  .addComponent(LblKeliling)  .addComponent(LblLuas)  .addComponent(LblMassukanDiagonal2))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(190, 190, 190)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(77, 77, 77)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(IDiagonal2)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addComponent(OKeliling)  .addComponent(OLuas, javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(IDiagonal1))  .addGap(128, 128, 128))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(LblHasil)  .addGap(281, 281, 281)  .addComponent(jLabel1)  .addGap(46, 46, 46))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(jLabel2)  .addGap(258, 258, 258)  .addComponent(jLabel4)  .addGap(22, 22, 22))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  .addComponent(jPanel2, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jPanel1, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addComponent(jLabel4))  .addComponent(jLabel2))  .addGap(18, 18, 18)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 33, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(IDiagonal1, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukandiagonal))  .addGap(30, 30, 30)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(IDiagonal2, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanDiagonal2)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(28, 28, 28)  .addComponent(jLabel1)  .addGap(19, 19, 19))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(LblHasil)  .addGap(40, 40, 40)))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OKeliling, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblKeliling))  .addGap(32, 32, 32)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuas, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuas))  .addGap(34, 34, 34)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void IDiagonal1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IDiagonal1ActionPerformed    }//GEN-LAST:event\_IDiagonal1ActionPerformed  private void IDiagonal2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IDiagonal2ActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_IDiagonal2ActionPerformed  private void OKelilingActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OKelilingActionPerformed    }//GEN-LAST:event\_OKelilingActionPerformed  private void OLuasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasActionPerformed    }//GEN-LAST:event\_OLuasActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  IDiagonal2.setText(" ");  IDiagonal1.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void BtnHitungActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnHitungActionPerformed  try{  String TmpDiagonal1 = IDiagonal1.getText();  String TmpDiagonal2 = IDiagonal2.getText();  double diagonal1 = Double.parseDouble(TmpDiagonal1);  double diagonal2 = Double.parseDouble(TmpDiagonal2);  CBelahKetupat cBelahKetupat = new CBelahKetupat(diagonal1, diagonal2);  cBelahKetupat.keliling();  cBelahKetupat.luas();  double Tmpkeliling = cBelahKetupat.getKeliling();  String keliling = Double.toString(Tmpkeliling);  OKeliling.setText(keliling);  double Tmpluas = cBelahKetupat.getLuas();  String luas = Double.toString(Tmpluas);  OLuas.setText(luas);  }catch (NumberFormatException check){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IDiagonal2.setText(" ");  IDiagonal1.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IDiagonal2.setText(" ");  IDiagonal1.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  }//GEN-LAST:event\_BtnHitungActionPerformed  /\*\*  \* @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(BelahKetupat.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(BelahKetupat.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(BelahKetupat.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(BelahKetupat.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new BelahKetupat().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnHitung;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField IDiagonal1;  private javax.swing.JTextField IDiagonal2;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblKeliling;  private javax.swing.JLabel LblLuas;  private javax.swing.JLabel LblMassukanDiagonal2;  private javax.swing.JLabel LblMassukandiagonal;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OKeliling;  private javax.swing.JTextField OLuas;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 2.11** BelahKetupat.java

|  |
| --- |
| package project.bangundatar.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.controller.CJajarGenjang;  import project.main.MainMenu;  public class JajarGenjang extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public JajarGenjang() {  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() {  PersegiPanjang = new javax.swing.JPanel();  LblMassukanAlas = new javax.swing.JLabel();  IAlas = new javax.swing.JTextField();  BtnReset = new javax.swing.JButton();  BtnHitung = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanTinggi = new javax.swing.JLabel();  ITinggi = new javax.swing.JTextField();  LblKeliling = new javax.swing.JLabel();  LblLuas = new javax.swing.JLabel();  OKeliling = new javax.swing.JTextField();  OLuas = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  ISisiMiring = new javax.swing.JTextField();  LblMassukanSisiMiring = new javax.swing.JLabel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(102, 153, 255));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR JAJAR GENJANG", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  LblMassukanAlas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanAlas.setText("Massukan Alas ");  IAlas.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IAlasActionPerformed(evt);  }  });  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnHitung.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnHitung.setText("Hitung");  BtnHitung.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnHitungActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanTinggi.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanTinggi.setText("Massukan Tinggi ");  ITinggi.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ITinggiActionPerformed(evt);  }  });  LblKeliling.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblKeliling.setText("Keliling");  LblLuas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuas.setText("Luas");  OKeliling.setEditable(false);  OKeliling.setBackground(new java.awt.Color(204, 204, 204));  OKeliling.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OKelilingActionPerformed(evt);  }  });  OLuas.setEditable(false);  OLuas.setBackground(new java.awt.Color(204, 204, 204));  OLuas.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  ISisiMiring.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ISisiMiringActionPerformed(evt);  }  });  LblMassukanSisiMiring.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanSisiMiring.setText("Sisi Miring");  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addContainerGap())  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanAlas)  .addComponent(LblKeliling)  .addComponent(LblLuas)  .addComponent(LblMassukanTinggi)  .addComponent(LblMassukanSisiMiring))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(202, 202, 202)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(89, 89, 89)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(ITinggi, javax.swing.GroupLayout.PREFERRED\_SIZE, 541, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(260, 260, 260)  .addComponent(LblHasil)))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel1)  .addGap(46, 46, 46))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(OKeliling)  .addComponent(OLuas, javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(IAlas)  .addComponent(ISisiMiring))  .addGap(128, 128, 128))))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(jLabel2)  .addGap(251, 251, 251)  .addComponent(jLabel4)  .addGap(22, 22, 22))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addComponent(jLabel4))  .addComponent(jLabel2))  .addGap(18, 18, 18)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 33, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(IAlas, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanAlas))  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ISisiMiring, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanSisiMiring))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(38, 38, 38)  .addComponent(jLabel1))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(14, 14, 14)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ITinggi, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanTinggi)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(26, 26, 26)  .addComponent(LblHasil)))  .addGap(19, 19, 19)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OKeliling, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblKeliling))  .addGap(32, 32, 32)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuas, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuas))  .addGap(34, 34, 34)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void IAlasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IAlasActionPerformed    }//GEN-LAST:event\_IAlasActionPerformed  private void ITinggiActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ITinggiActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ITinggiActionPerformed  private void OKelilingActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OKelilingActionPerformed    }//GEN-LAST:event\_OKelilingActionPerformed  private void OLuasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasActionPerformed    }//GEN-LAST:event\_OLuasActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  ITinggi.setText(" ");  IAlas.setText(" ");  ISisiMiring.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void BtnHitungActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnHitungActionPerformed  try{  String TmpAlas = IAlas.getText();  String TmpTinggi = ITinggi.getText();  String TmpSisiMiring = ISisiMiring.getText();    double alas = Double.parseDouble(TmpAlas);  double tinggi = Double.parseDouble(TmpTinggi);  double sisimiring = Double.parseDouble(TmpSisiMiring);  CJajarGenjang cJajarGenjang = new CJajarGenjang(alas,tinggi,sisimiring);  cJajarGenjang.keliling();  cJajarGenjang.luas();  double Tmpkeliling = cJajarGenjang.getKeliling();  String keliling = Double.toString(Tmpkeliling);  OKeliling.setText(keliling);  double Tmpluas = cJajarGenjang.getLuas();  String luas = Double.toString(Tmpluas);  OLuas.setText(luas);  }catch (NumberFormatException check){  IAlas.setText(" ");  ITinggi.setText(" ");  ISisiMiring.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IAlas.setText(" ");  ITinggi.setText(" ");  ISisiMiring.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  }//GEN-LAST:event\_BtnHitungActionPerformed  private void ISisiMiringActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ISisiMiringActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ISisiMiringActionPerformed  /\*\*  \* @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(JajarGenjang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(JajarGenjang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(JajarGenjang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(JajarGenjang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new JajarGenjang().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnHitung;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField IAlas;  private javax.swing.JTextField ISisiMiring;  private javax.swing.JTextField ITinggi;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblKeliling;  private javax.swing.JLabel LblLuas;  private javax.swing.JLabel LblMassukanAlas;  private javax.swing.JLabel LblMassukanSisiMiring;  private javax.swing.JLabel LblMassukanTinggi;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OKeliling;  private javax.swing.JTextField OLuas;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 2.12** JajarGenjang.java

|  |
| --- |
| package project.bangundatar.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.controller.CLayangLayang;  import project.main.MainMenu;  public class LayangLayang extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public LayangLayang() {  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() {  PersegiPanjang = new javax.swing.JPanel();  LblMassukandiagonal = new javax.swing.JLabel();  IDiagonal1 = new javax.swing.JTextField();  BtnReset = new javax.swing.JButton();  BtnHitung = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanDiagonal2 = new javax.swing.JLabel();  IDiagonal2 = new javax.swing.JTextField();  LblKeliling = new javax.swing.JLabel();  LblLuas = new javax.swing.JLabel();  OKeliling = new javax.swing.JTextField();  OLuas = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  ISisi2 = new javax.swing.JTextField();  ISisi1 = new javax.swing.JTextField();  LblMassukanSisi1 = new javax.swing.JLabel();  LblMassukanSisi2 = new javax.swing.JLabel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(102, 153, 255));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR LAYANG LAYANG", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  LblMassukandiagonal.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukandiagonal.setText("Massukan Diagonal 1 ");  IDiagonal1.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IDiagonal1ActionPerformed(evt);  }  });  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnHitung.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnHitung.setText("Hitung");  BtnHitung.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnHitungActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanDiagonal2.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanDiagonal2.setText("Massukan Diagonal 2 ");  IDiagonal2.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IDiagonal2ActionPerformed(evt);  }  });  LblKeliling.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblKeliling.setText("Keliling");  LblLuas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuas.setText("Luas");  OKeliling.setEditable(false);  OKeliling.setBackground(new java.awt.Color(204, 204, 204));  OKeliling.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OKelilingActionPerformed(evt);  }  });  OLuas.setEditable(false);  OLuas.setBackground(new java.awt.Color(204, 204, 204));  OLuas.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  ISisi2.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ISisi2ActionPerformed(evt);  }  });  ISisi1.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ISisi1ActionPerformed(evt);  }  });  LblMassukanSisi1.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanSisi1.setText("Massukan Sisi M 1 ");  LblMassukanSisi2.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanSisi2.setText("Massukan Sisi M 2");  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukandiagonal, javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(LblKeliling)  .addComponent(LblLuas)  .addComponent(LblMassukanDiagonal2, javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(LblMassukanSisi1)  .addComponent(LblMassukanSisi2))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(202, 202, 202)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(89, 89, 89)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(ISisi2, javax.swing.GroupLayout.PREFERRED\_SIZE, 516, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(255, 255, 255)  .addComponent(LblHasil)))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED, 14, Short.MAX\_VALUE)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 103, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(18, 18, 18)  .addComponent(jLabel1)  .addGap(46, 46, 46))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(OKeliling)  .addComponent(OLuas, javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(IDiagonal1)  .addComponent(ISisi1, javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(IDiagonal2))  .addGap(128, 128, 128))))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(jLabel2)  .addGap(243, 243, 243)  .addComponent(jLabel4)  .addGap(22, 22, 22))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  .addComponent(jPanel2, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jPanel1, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addComponent(jLabel4))  .addComponent(jLabel2))  .addGap(18, 18, 18)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(IDiagonal1, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukandiagonal))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanDiagonal2)  .addComponent(IDiagonal2, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ISisi1, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanSisi1))  .addGap(9, 9, 9)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ISisi2, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanSisi2)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 41, Short.MAX\_VALUE)  .addComponent(LblHasil))  .addComponent(jLabel1, javax.swing.GroupLayout.Alignment.TRAILING))  .addGap(19, 19, 19)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OKeliling, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblKeliling))  .addGap(32, 32, 32)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuas, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuas))  .addGap(34, 34, 34)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void IDiagonal1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IDiagonal1ActionPerformed    }//GEN-LAST:event\_IDiagonal1ActionPerformed  private void IDiagonal2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IDiagonal2ActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_IDiagonal2ActionPerformed  private void OKelilingActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OKelilingActionPerformed    }//GEN-LAST:event\_OKelilingActionPerformed  private void OLuasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasActionPerformed    }//GEN-LAST:event\_OLuasActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  IDiagonal2.setText(" ");  IDiagonal1.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void ISisi2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ISisi2ActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ISisi2ActionPerformed  private void ISisi1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ISisi1ActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ISisi1ActionPerformed  private void BtnHitungActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnHitungActionPerformed  try{  String TmpDiagonal1 = IDiagonal1.getText();  String TmpDiagonal2 = IDiagonal2.getText();  String TmpSisi1 = ISisi1.getText();  String TmpSisi2 = ISisi2.getText();  double diagonal1 = Double.parseDouble(TmpDiagonal1);  double diagonal2 = Double.parseDouble(TmpDiagonal2);  double sisi1 = Double.parseDouble(TmpSisi1);  double sisi2 = Double.parseDouble(TmpSisi2);  CLayangLayang cLayangLayang = new CLayangLayang(diagonal1, diagonal2, sisi1, sisi2);  cLayangLayang.keliling();  cLayangLayang.luas();  double Tmpkeliling = cLayangLayang.getKeliling();  String keliling = Double.toString(Tmpkeliling);  OKeliling.setText(keliling);  double Tmpluas = cLayangLayang.getLuas();  String luas = Double.toString(Tmpluas);  OLuas.setText(luas);  }catch (NumberFormatException check){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IDiagonal2.setText(" ");  IDiagonal1.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IDiagonal2.setText(" ");  IDiagonal1.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  }//GEN-LAST:event\_BtnHitungActionPerformed  /\*\*  \* @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(LayangLayang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(LayangLayang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(LayangLayang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(LayangLayang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new LayangLayang().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnHitung;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField IDiagonal1;  private javax.swing.JTextField IDiagonal2;  private javax.swing.JTextField ISisi1;  private javax.swing.JTextField ISisi2;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblKeliling;  private javax.swing.JLabel LblLuas;  private javax.swing.JLabel LblMassukanDiagonal2;  private javax.swing.JLabel LblMassukanSisi1;  private javax.swing.JLabel LblMassukanSisi2;  private javax.swing.JLabel LblMassukandiagonal;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OKeliling;  private javax.swing.JTextField OLuas;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 2.13** LayangLayang.java

|  |
| --- |
| package project.bangundatar.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.controller.CLingkaran;  import project.main.MainMenu;  public class Lingkaran extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public Lingkaran() {  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() {  PersegiPanjang = new javax.swing.JPanel();  BtnReset = new javax.swing.JButton();  BtnHasil = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanLebar = new javax.swing.JLabel();  IJariJari = new javax.swing.JTextField();  LblKeliling = new javax.swing.JLabel();  LblLuas = new javax.swing.JLabel();  OKeliling = new javax.swing.JTextField();  OLuas = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(102, 153, 255));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR LINGKARAN", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnHasil.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnHasil.setText("Hitung");  BtnHasil.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnHasilActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanLebar.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanLebar.setText("Massukan Jari-Jari ");  IJariJari.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IJariJariActionPerformed(evt);  }  });  LblKeliling.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblKeliling.setText("Keliling");  LblLuas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuas.setText("Luas");  OKeliling.setEditable(false);  OKeliling.setBackground(new java.awt.Color(204, 204, 204));  OKeliling.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OKelilingActionPerformed(evt);  }  });  OLuas.setEditable(false);  OLuas.setBackground(new java.awt.Color(204, 204, 204));  OLuas.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblKeliling)  .addComponent(LblLuas)  .addComponent(LblMassukanLebar))  .addGap(14, 14, 14)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(178, 178, 178)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(93, 93, 93)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(IJariJari)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(BtnHasil, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addComponent(OKeliling)  .addComponent(OLuas, javax.swing.GroupLayout.Alignment.TRAILING))  .addGap(128, 128, 128))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(LblHasil)  .addGap(274, 274, 274)  .addComponent(jLabel1)  .addGap(46, 46, 46))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(jLabel2)  .addGap(258, 258, 258)  .addComponent(jLabel4)  .addGap(22, 22, 22))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addContainerGap())))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addComponent(jLabel4))  .addComponent(jLabel2))  .addGap(18, 18, 18)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(50, 50, 50)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(IJariJari, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanLebar)  .addComponent(BtnHasil, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 55, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jLabel1)  .addComponent(LblHasil))  .addGap(19, 19, 19)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OKeliling, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblKeliling))  .addGap(32, 32, 32)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuas, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuas))  .addGap(34, 34, 34)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void OLuasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasActionPerformed  }//GEN-LAST:event\_OLuasActionPerformed  private void OKelilingActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OKelilingActionPerformed  }//GEN-LAST:event\_OKelilingActionPerformed  private void IJariJariActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IJariJariActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_IJariJariActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  IJariJari.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnHasilActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnHasilActionPerformed  try{  String TmpJariJari = IJariJari.getText();  double JariJari = Double.parseDouble(TmpJariJari);  CLingkaran cLingkaran = new CLingkaran(JariJari);  cLingkaran.keliling();  cLingkaran.luas();  double Tmpkeliling = cLingkaran.getKeliling();  String keliling = Double.toString(Tmpkeliling);  OKeliling.setText(keliling);  double Tmpluas = cLingkaran.getLuas();  String luas = Double.toString(Tmpluas);  OLuas.setText(luas);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IJariJari.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IJariJari.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  }//GEN-LAST:event\_BtnHasilActionPerformed  /\*\*  \* @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(Lingkaran.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Lingkaran.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Lingkaran.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Lingkaran.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new Lingkaran().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnHasil;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField IJariJari;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblKeliling;  private javax.swing.JLabel LblLuas;  private javax.swing.JLabel LblMassukanLebar;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OKeliling;  private javax.swing.JTextField OLuas;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 2.14** Lingkaran.java

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| --- |
| package project.bangundatar.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.controller.CPersegi;  import project.main.MainMenu;  /\*  \* To change this license header, choose License Headers in Project Properties.  \* To change this template file, choose Tools | Templates  \* and open the template in the editor.  \*/  /\*\*  \*  \* @author Catur Rahmat  \*/  public class Persegi extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public Persegi() {  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() {  PersegiPanjang = new javax.swing.JPanel();  BtnReset = new javax.swing.JButton();  BtnHasil = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanSisi = new javax.swing.JLabel();  ISisi = new javax.swing.JTextField();  LblKeliling = new javax.swing.JLabel();  LblLuas = new javax.swing.JLabel();  OKeliling = new javax.swing.JTextField();  OLuas = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(102, 153, 255));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR PERSEGI", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnHasil.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnHasil.setText("Hitung");  BtnHasil.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnHasilActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanSisi.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanSisi.setText("Massukan Sisi ");  ISisi.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ISisiActionPerformed(evt);  }  });  LblKeliling.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblKeliling.setText("Keliling");  LblLuas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuas.setText("Luas");  OKeliling.setEditable(false);  OKeliling.setBackground(new java.awt.Color(204, 204, 204));  OKeliling.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OKelilingActionPerformed(evt);  }  });  OLuas.setEditable(false);  OLuas.setBackground(new java.awt.Color(204, 204, 204));  OLuas.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblKeliling)  .addComponent(LblLuas)  .addComponent(LblMassukanSisi))  .addGap(14, 14, 14)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(202, 202, 202)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(89, 89, 89)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(ISisi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(BtnHasil, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addComponent(OKeliling)  .addComponent(OLuas, javax.swing.GroupLayout.Alignment.TRAILING))  .addGap(128, 128, 128))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(LblHasil)  .addGap(295, 295, 295)  .addComponent(jLabel1)  .addGap(33, 33, 33))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(jLabel2)  .addGap(236, 236, 236)  .addComponent(jLabel4)  .addGap(34, 34, 34))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  .addComponent(jPanel2, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jPanel1, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel2)  .addComponent(jLabel4))  .addGap(18, 18, 18)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(47, 47, 47)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ISisi, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanSisi)  .addComponent(BtnHasil, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 55, Short.MAX\_VALUE)  .addComponent(LblHasil)  .addGap(68, 68, 68))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(31, 31, 31)  .addComponent(jLabel1)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OKeliling, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblKeliling))  .addGap(32, 32, 32)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuas, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuas))  .addGap(34, 34, 34)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void OLuasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasActionPerformed  }//GEN-LAST:event\_OLuasActionPerformed  private void OKelilingActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OKelilingActionPerformed  }//GEN-LAST:event\_OKelilingActionPerformed  private void ISisiActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ISisiActionPerformed    }//GEN-LAST:event\_ISisiActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  ISisi.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnHasilActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnHasilActionPerformed  try{  String Tmpsisi = ISisi.getText();  double sisi = Double.parseDouble(Tmpsisi);  CPersegi cPersegi = new CPersegi(sisi);  cPersegi.keliling();  cPersegi.luas();  double Tmpkeliling = cPersegi.getKeliling();  String keliling = Double.toString(Tmpkeliling);  OKeliling.setText(keliling);  double Tmpluas = cPersegi.getLuas();  String luas = Double.toString(Tmpluas);  OLuas.setText(luas);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ISisi.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ISisi.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }    }//GEN-LAST:event\_BtnHasilActionPerformed  /\*\*  \* @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(Persegi.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Persegi.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Persegi.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Persegi.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new Persegi().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnHasil;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField ISisi;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblKeliling;  private javax.swing.JLabel LblLuas;  private javax.swing.JLabel LblMassukanSisi;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OKeliling;  private javax.swing.JTextField OLuas;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 2.15** Persegi.java

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| --- |
| package project.bangundatar.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.controller.CPersegiPanjang;  import project.main.MainMenu;  public class PersegiPanjang extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public PersegiPanjang() {  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() {  PersegiPanjang = new javax.swing.JPanel();  LblMassukanPanjang = new javax.swing.JLabel();  IPanjang = new javax.swing.JTextField();  BtnReset = new javax.swing.JButton();  BtnCount = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanLebar = new javax.swing.JLabel();  ILebar = new javax.swing.JTextField();  LblKeliling = new javax.swing.JLabel();  LblLuas = new javax.swing.JLabel();  OKeliling = new javax.swing.JTextField();  OLuas = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(102, 153, 255));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR PERSEGI PANJANG", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  LblMassukanPanjang.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanPanjang.setText("Massukan Panjang ");  IPanjang.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IPanjangActionPerformed(evt);  }  });  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnCount.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnCount.setText("Hitung");  BtnCount.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnCountActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanLebar.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanLebar.setText("Massukan Lebar ");  ILebar.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ILebarActionPerformed(evt);  }  });  LblKeliling.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblKeliling.setText("Keliling");  LblLuas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuas.setText("Luas");  OKeliling.setEditable(false);  OKeliling.setBackground(new java.awt.Color(204, 204, 204));  OKeliling.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OKelilingActionPerformed(evt);  }  });  OLuas.setEditable(false);  OLuas.setBackground(new java.awt.Color(204, 204, 204));  OLuas.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanPanjang)  .addComponent(LblKeliling)  .addComponent(LblLuas)  .addComponent(LblMassukanLebar))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(179, 179, 179)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(112, 112, 112)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(OKeliling)  .addComponent(OLuas, javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(IPanjang)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(ILebar)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(BtnCount, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addGap(128, 128, 128))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(LblHasil)  .addGap(280, 280, 280)  .addComponent(jLabel1)  .addGap(46, 46, 46))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(jLabel2)  .addGap(250, 250, 250)  .addComponent(jLabel4)  .addGap(28, 28, 28))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  .addComponent(jPanel2, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jPanel1, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel2)  .addComponent(jLabel4))  .addGap(18, 18, 18)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 28, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(IPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanPanjang))  .addGap(30, 30, 30)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ILebar, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanLebar)  .addComponent(BtnCount, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(65, 65, 65)  .addComponent(LblHasil))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(28, 28, 28)  .addComponent(jLabel1)))  .addGap(19, 19, 19)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OKeliling, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblKeliling))  .addGap(32, 32, 32)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuas, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuas))  .addGap(34, 34, 34)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void IPanjangActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IPanjangActionPerformed    }//GEN-LAST:event\_IPanjangActionPerformed  private void ILebarActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ILebarActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ILebarActionPerformed  private void OKelilingActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OKelilingActionPerformed    }//GEN-LAST:event\_OKelilingActionPerformed  private void OLuasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasActionPerformed    }//GEN-LAST:event\_OLuasActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  ILebar.setText(" ");  IPanjang.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void BtnCountActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnCountActionPerformed  try{  String TmpPanjang = IPanjang.getText();  String TmpLebar = ILebar.getText();  double panjang = Double.parseDouble(TmpPanjang);  double lebar = Double.parseDouble(TmpLebar);  CPersegiPanjang cPersegiPanjang = new CPersegiPanjang(panjang, lebar);  cPersegiPanjang.keliling();  cPersegiPanjang.luas();  double Tmpkeliling = cPersegiPanjang.getKeliling();  String keliling = Double.toString(Tmpkeliling);  OKeliling.setText(keliling);  double Tmpluas = cPersegiPanjang.getLuas();  String luas = Double.toString(Tmpluas);  OLuas.setText(luas);  }catch (NumberFormatException check){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ILebar.setText(" ");  IPanjang.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ILebar.setText(" ");  IPanjang.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  }//GEN-LAST:event\_BtnCountActionPerformed  /\*\*  \* @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(PersegiPanjang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(PersegiPanjang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(PersegiPanjang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(PersegiPanjang.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new PersegiPanjang().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnCount;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField ILebar;  private javax.swing.JTextField IPanjang;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblKeliling;  private javax.swing.JLabel LblLuas;  private javax.swing.JLabel LblMassukanLebar;  private javax.swing.JLabel LblMassukanPanjang;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OKeliling;  private javax.swing.JTextField OLuas;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 2.16** PersegiPanjang.java

|  |
| --- |
| package project.bangundatar.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.controller.CSegitiga;  import project.main.MainMenu;  public class Segitiga extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public Segitiga() {  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() {  PersegiPanjang = new javax.swing.JPanel();  LblMassukanAlas = new javax.swing.JLabel();  IAlas = new javax.swing.JTextField();  BtnReset = new javax.swing.JButton();  BtnHitung = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanTinggi = new javax.swing.JLabel();  ITinggi = new javax.swing.JTextField();  LblKeliling = new javax.swing.JLabel();  LblLuas = new javax.swing.JLabel();  OKeliling = new javax.swing.JTextField();  OLuas = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(102, 153, 255));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR SEGITIGA", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  LblMassukanAlas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanAlas.setText("Massukan Alas ");  IAlas.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IAlasActionPerformed(evt);  }  });  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnHitung.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnHitung.setText("Hitung");  BtnHitung.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnHitungActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanTinggi.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanTinggi.setText("Massukan Tinggi ");  ITinggi.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ITinggiActionPerformed(evt);  }  });  LblKeliling.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblKeliling.setText("Keliling");  LblLuas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuas.setText("Luas");  OKeliling.setEditable(false);  OKeliling.setBackground(new java.awt.Color(204, 204, 204));  OKeliling.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OKelilingActionPerformed(evt);  }  });  OLuas.setEditable(false);  OLuas.setBackground(new java.awt.Color(204, 204, 204));  OLuas.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addContainerGap())  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanAlas)  .addComponent(LblKeliling)  .addComponent(LblLuas)  .addComponent(LblMassukanTinggi))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(202, 202, 202)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(89, 89, 89)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(ITinggi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addComponent(OKeliling)  .addComponent(OLuas, javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(IAlas))  .addGap(128, 128, 128))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(LblHasil)  .addGap(277, 277, 277)  .addComponent(jLabel1)  .addGap(46, 46, 46))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(jLabel2)  .addGap(245, 245, 245)  .addComponent(jLabel4)  .addGap(29, 29, 29))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel2)  .addComponent(jLabel4))  .addGap(18, 18, 18)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 35, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(IAlas, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanAlas))  .addGap(30, 30, 30)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ITinggi, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanTinggi)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(65, 65, 65)  .addComponent(LblHasil))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(28, 28, 28)  .addComponent(jLabel1)))  .addGap(19, 19, 19)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OKeliling, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblKeliling))  .addGap(32, 32, 32)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuas, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuas))  .addGap(34, 34, 34)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void IAlasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IAlasActionPerformed    }//GEN-LAST:event\_IAlasActionPerformed  private void ITinggiActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ITinggiActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ITinggiActionPerformed  private void OKelilingActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OKelilingActionPerformed    }//GEN-LAST:event\_OKelilingActionPerformed  private void OLuasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasActionPerformed    }//GEN-LAST:event\_OLuasActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  ITinggi.setText(" ");  IAlas.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void BtnHitungActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnHitungActionPerformed  try{  String TmpAlas = IAlas.getText();  String TmpTinggi = ITinggi.getText();  double alas = Double.parseDouble(TmpAlas);  double tinggi = Double.parseDouble(TmpTinggi);  CSegitiga cSegitiga = new CSegitiga(alas,tinggi);  cSegitiga.keliling();  cSegitiga.luas();  double Tmpkeliling = cSegitiga.getKeliling();  String keliling = Double.toString(Tmpkeliling);  OKeliling.setText(keliling);  double Tmpluas = cSegitiga.getLuas();  String luas = Double.toString(Tmpluas);  OLuas.setText(luas);  }catch (NumberFormatException check){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ITinggi.setText(" ");  IAlas.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ITinggi.setText(" ");  IAlas.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  }//GEN-LAST:event\_BtnHitungActionPerformed  /\*\*  \* @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(Segitiga.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Segitiga.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Segitiga.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Segitiga.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new Segitiga().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnHitung;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField IAlas;  private javax.swing.JTextField ITinggi;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblKeliling;  private javax.swing.JLabel LblLuas;  private javax.swing.JLabel LblMassukanAlas;  private javax.swing.JLabel LblMassukanTinggi;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OKeliling;  private javax.swing.JTextField OLuas;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 2.17** Segitiga.java

|  |
| --- |
| package project.bangundatar.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.controller.CTrapesium;  import project.main.MainMenu;  public class Trapesium extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public Trapesium() {  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() {  PersegiPanjang = new javax.swing.JPanel();  LblMassukanPanjang = new javax.swing.JLabel();  ISisi1 = new javax.swing.JTextField();  BtnReset = new javax.swing.JButton();  BtnHitung = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanLebar = new javax.swing.JLabel();  LblKeliling = new javax.swing.JLabel();  LblLuas = new javax.swing.JLabel();  OKeliling = new javax.swing.JTextField();  OLuas = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  LblMassukanLebar1 = new javax.swing.JLabel();  ISisi2 = new javax.swing.JTextField();  jPanel2 = new javax.swing.JPanel();  ITinggi = new javax.swing.JTextField();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(102, 153, 255));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR TRAPESIUM", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  LblMassukanPanjang.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanPanjang.setText("Massukan Sisi 1 ");  ISisi1.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ISisi1ActionPerformed(evt);  }  });  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnHitung.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnHitung.setText("Hitung");  BtnHitung.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnHitungActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanLebar.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanLebar.setText("Massukan Tinggi ");  LblKeliling.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblKeliling.setText("Keliling");  LblLuas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuas.setText("Luas");  OKeliling.setEditable(false);  OKeliling.setBackground(new java.awt.Color(204, 204, 204));  OKeliling.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OKelilingActionPerformed(evt);  }  });  OLuas.setEditable(false);  OLuas.setBackground(new java.awt.Color(204, 204, 204));  OLuas.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  LblMassukanLebar1.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanLebar1.setText("Massukan Sisi 2 ");  ISisi2.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ISisi2ActionPerformed(evt);  }  });  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  ITinggi.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ITinggiActionPerformed(evt);  }  });  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanPanjang)  .addComponent(LblKeliling)  .addComponent(LblLuas)  .addComponent(LblMassukanLebar))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(202, 202, 202)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(89, 89, 89)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  .addComponent(ISisi1, javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.LEADING, PersegiPanjangLayout.createSequentialGroup()  .addComponent(ITinggi, javax.swing.GroupLayout.PREFERRED\_SIZE, 533, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addComponent(ISisi2, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, 644, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(266, 266, 266)  .addComponent(LblHasil)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 281, Short.MAX\_VALUE)  .addComponent(jLabel1))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(OLuas, javax.swing.GroupLayout.DEFAULT\_SIZE, 643, Short.MAX\_VALUE)  .addComponent(OKeliling))))  .addGap(36, 36, 36))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(jLabel2)  .addGap(245, 245, 245)  .addComponent(jLabel4)  .addGap(31, 31, 31))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(LblMassukanLebar1)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel4)  .addComponent(jLabel2))  .addGap(18, 18, 18)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 10, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ISisi1, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanPanjang))  .addGap(30, 30, 30)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(LblMassukanLebar1)  .addComponent(ISisi2, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(24, 24, 24)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(LblMassukanLebar)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(ITinggi, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(113, 113, 113)  .addComponent(LblHasil))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(77, 77, 77)  .addComponent(jLabel1)))  .addGap(15, 15, 15)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OKeliling, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblKeliling))  .addGap(32, 32, 32)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuas, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuas))  .addGap(34, 34, 34)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void ISisi1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ISisi1ActionPerformed    }//GEN-LAST:event\_ISisi1ActionPerformed  private void OKelilingActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OKelilingActionPerformed    }//GEN-LAST:event\_OKelilingActionPerformed  private void OLuasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasActionPerformed    }//GEN-LAST:event\_OLuasActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  ITinggi.setText(" ");  ISisi1.setText(" ");  ISisi2.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void ISisi2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ISisi2ActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ISisi2ActionPerformed  private void BtnHitungActionPerformed(java.awt.event.ActionEvent evt) {  //GEN-FIRST:event\_BtnHitungActionPerformed  try{  String TmpSisi1 = ISisi1.getText();  String TmpSisi2 = ISisi2.getText();  String TmpTinggi = ITinggi.getText();  double tinggi = Double.parseDouble(TmpTinggi);  double sisi1 = Double.parseDouble(TmpSisi1);  double sisi2 = Double.parseDouble(TmpSisi2);  if(sisi2 < sisi1){  throw new RuntimeException();  }else{  CTrapesium cTrapesium = new CTrapesium( sisi1, sisi2, tinggi);  cTrapesium.keliling();  cTrapesium.luas();  double Tmpkeliling = cTrapesium.getKeliling();  String keliling = Double.toString(Tmpkeliling);  OKeliling.setText(keliling);  double Tmpluas = cTrapesium.getLuas();  String luas = Double.toString(Tmpluas);  OLuas.setText(luas);  }  }  catch (NumberFormatException check){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ITinggi.setText(" ");  ISisi1.setText(" ");  ISisi2.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ITinggi.setText(" ");  ISisi1.setText(" ");  ISisi2.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }catch(RuntimeException check){  JOptionPane.showMessageDialog(this, "Sisi 2 Harus > Sisi 1, Please Try Again!!!","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ITinggi.setText(" ");  ISisi1.setText(" ");  ISisi2.setText(" ");  OKeliling.setText(" ");  OLuas.setText(" ");  }  }//GEN-LAST:event\_BtnHitungActionPerformed  private void ITinggiActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ITinggiActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ITinggiActionPerformed  /\*\*  \* @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(Trapesium.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Trapesium.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Trapesium.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Trapesium.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new Trapesium().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnHitung;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField ISisi1;  private javax.swing.JTextField ISisi2;  private javax.swing.JTextField ITinggi;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblKeliling;  private javax.swing.JLabel LblLuas;  private javax.swing.JLabel LblMassukanLebar;  private javax.swing.JLabel LblMassukanLebar1;  private javax.swing.JLabel LblMassukanPanjang;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OKeliling;  private javax.swing.JTextField OLuas;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 2.18** Trapesium.java

**c. Listing package bangunruang**

|  |
| --- |
| package project.bangunruang.controller;  public interface BangunRuang {  void volume();  void luasPermukaan();    } |

**Listing 3.1** BangunRuang.java

|  |
| --- |
| package project.bangunruang.controller;  import project.bangundatar.controller.CPersegiPanjang;  public class CBalok extends CPersegiPanjang implements BangunRuang {  public CBalok(double panjang, double lebar,double tinggi) {  super(panjang, lebar);  setA(panjang);  setB(lebar);  setC(tinggi);  }  @Override  public void volume() {  double panjang = getA();  double lebar = getB();  double tinggi = getC();  setVolume((panjang\*lebar\*tinggi));    }  @Override  public void luasPermukaan() {  double panjang = getA();  double lebar= getB();  double tinggi= getC();  setLuasPermukaan((4)\*(tinggi\*lebar)+(2)\*(panjang\*lebar));  }      } |

**Listing 3.2** CBalok.java

|  |
| --- |
| package project.bangunruang.controller;  import project.bangundatar.controller.CLingkaran;  public class CBola extends CLingkaran implements BangunRuang {  public CBola(double jariJari) {  super(jariJari);  setA(jariJari);  }  @Override  public void volume() {  double jariJari=getA();  setVolume(((4/3)\*PHI\*(Math.pow(jariJari,3))));  }  @Override  public void luasPermukaan() {  double jariJari=getA();  setLuasPermukaan((4\*PHI\*(Math.pow(jariJari,2))));  }    } |

**Listing 3.3** CBola.java

|  |
| --- |
| package project.bangunruang.controller;  import project.bangundatar.controller.CLingkaran;  public class CKerucut extends CLingkaran implements BangunRuang{  private final double PHI = 3.14159265358979323846;  public CKerucut(double jariJari, double tinggi) {  super(jariJari);  setA(jariJari);  setB(tinggi);  }  @Override  public void volume() {  double jariJari=getA();  double tinggi=getB();  setVolume((0.33333)\*(PHI\*(Math.pow(jariJari,2))\*tinggi));  }  @Override  public void luasPermukaan() {  double garispelukis;  double jariJari=getA();  double tinggi=getB();  garispelukis = Math.sqrt((Math.pow(jariJari,2)+Math.pow(tinggi,2)));  setLuasPermukaan((PHI \* jariJari )\*(jariJari + garispelukis));  }  } |

**Listing 3.4** CKerucut.java

|  |
| --- |
| package project.bangunruang.controller;  import project.bangundatar.controller.CPersegi;  public class CKubus extends CPersegi implements BangunRuang {  public CKubus(double sisi) {  super(sisi);  setA(sisi);  }  @Override  public void volume() {  double sisi=getA();  setVolume(Math.pow(sisi,3));    }  @Override  public void luasPermukaan() {  double sisi=getA();  setLuasPermukaan(6\*(sisi\*sisi));  }    } |

**Listing 3.5** CKubus.java

|  |
| --- |
| package project.bangunruang.controller;  import project.bangundatar.controller.CPersegi;  public class CLimasPersegi extends CPersegi implements BangunRuang {  public CLimasPersegi(double sisi,double tinggi) {  super(sisi);  setA(sisi);  setB(tinggi);  }  @Override  public void volume() {  double sisi=getA();  double tinggi=getB();  setVolume(((Math.pow(sisi,2))\*tinggi));  }  @Override  public void luasPermukaan() {  double tinggiSegitiga;  double sisi=getA();  double tinggi=getB();  tinggiSegitiga = Math.sqrt((Math.pow((sisi/2), 2)) + (Math.pow(tinggi, 2)));  setLuasPermukaan(((sisi\*sisi)+(4\*((0.5)\*sisi\*tinggiSegitiga))));    }    } |

**Listing 3.6** CLimasPersegi.java

|  |
| --- |
| package project.bangunruang.controller;  import project.bangundatar.controller.CSegitiga;  public class CLimasSegitiga extends CSegitiga implements BangunRuang {  public CLimasSegitiga(double alas, double tinggiAlas, double tinggiLimas) {  super(alas, tinggiAlas);  setA(alas);  setB(tinggiAlas);  setC(tinggiLimas);  }  @Override  public void volume() {  double alas=getA();  double tinggiAlas= getB();  double tinggiLimas = getC();  setVolume(((0.5\*alas\*tinggiAlas)\*tinggiLimas));    }  @Override  public void luasPermukaan() {  double alas=getA();  double tinggiAlas=getB();  double tinggiLimas = getC();  setLuasPermukaan((0.5\*alas\*tinggiAlas)+(3 \* tinggiLimas \* alas \* 0.5));  }  } |

**Listing 3.7** CLimasSegitiga.java

|  |
| --- |
| package project.bangunruang.controller;  import project.bangundatar.controller.CJajarGenjang;  public class CPrismaJajarGenjang extends CJajarGenjang implements BangunRuang {  public CPrismaJajarGenjang(double alas, double tinggi,double tinggiPrisma,double sisiMiring) {  super(alas, tinggi,tinggiPrisma);  setA(alas);  setB(tinggi);  setC(tinggiPrisma);  setD(sisiMiring);  }  @Override  public void volume() {  double alas=getA();  double tinggi=getB();  double tinggiPrisma=getC();  double luasAlas=(alas\*tinggi);  setVolume(luasAlas\*tinggiPrisma);  }  @Override  public void luasPermukaan() {  double alas=getA();  double tinggi=getB();  double tinggiPrisma=getC();  double sisiMiring = getD();  double luasAlas=(alas\*tinggi);  setLuasPermukaan ((2\*luasAlas)+(2\*sisiMiring\*tinggiPrisma)+(2\*alas\*tinggiPrisma));  }    } |

**Listing 3.8** CPrismaJajarGenjang.java

|  |
| --- |
| package project.bangunruang.controller;  import project.bangundatar.controller.CPersegi;  public class CPrismaSegiEmpat extends CPersegi implements BangunRuang {  public CPrismaSegiEmpat(double sisi, double tinggi) {  super(sisi);  setA(sisi);  setB(tinggi);  }  @Override  public void volume() {  double sisi=getA();  double tinggi=getB();  setVolume(Math.pow(sisi,2)\*tinggi);  }  @Override  public void luasPermukaan() {  double sisi=getA();  double tinggiPrisma=getB();  setLuasPermukaan((2\*sisi\*sisi)+(4\*sisi\*tinggiPrisma));    }    } |

**Listing 3.9** CPrismaSegiEmpat.java

|  |
| --- |
| package project.bangunruang.controller;  import project.bangundatar.controller.CSegitiga;  public class CPrismaSegitiga extends CSegitiga implements BangunRuang {  public CPrismaSegitiga(double alas, double tinggi,double tinggiPrisma) {  super(alas, tinggi);  setA(alas);  setB(tinggi);  setC(tinggiPrisma);  }  @Override  public void volume() {  double alas=getA();  double tinggi=getB();  double tinggiPrisma=getC();  double luasAlas=(((0.5)\*alas\*tinggi));  setVolume (luasAlas\*tinggiPrisma);  }  @Override  public void luasPermukaan() {  double alas=getA();  double tinggi=getB();  double tinggiPrisma=getC();  double luasAlas=(((0.5)\*alas\*tinggi));  double luasBidangTegak=((0.5)\*alas\*tinggiPrisma);  setLuasPermukaan((2\*luasAlas)+(3\*luasBidangTegak));  }  } |

**Listing 3.10** CPrismaSegitiga.java

|  |
| --- |
| package project.bangunruang.controller;  import project.bangundatar.controller.CTrapesium;  public class CPrismaTrapesium extends CTrapesium implements BangunRuang {  public CPrismaTrapesium(double sisi1,double sisi2,double tinggi,double sisiMiring) {  super(sisi1,sisi2,tinggi);  setA(sisi1);  setB(sisi2);  setC(tinggi);  setD(sisiMiring);  }  @Override  public void volume() {  double sisi1=getA();  double sisi2=getB();  double tinggiPrisma=getC();  double sisiMiring = getD();  double tinggi = Math.sqrt((Math.pow(sisiMiring,2))-(Math.pow(((sisi2-sisi1)/2),2)));  double luasAlas = (((sisi1 + sisi2)/2)\*tinggi);  setVolume (luasAlas \* tinggiPrisma);  }  @Override  public void luasPermukaan() {  double sisi1=getA();  double sisi2=getB();  double tinggiPrisma=getC();  double sisiMiring = getD();  double tinggi = Math.sqrt((Math.pow(sisiMiring,2))+(Math.pow(((sisi2-sisi1)/2),2)));  double luasTrapesium = ((((sisi1+sisi2)\*0.5)\*tinggi));  double luasSisiMiring = (2\*(sisiMiring \* tinggiPrisma));  double luasAlasBawah = ((sisi2 \* tinggiPrisma));  double luasAlasAtas = ((sisi1 \* tinggiPrisma));  setLuasPermukaan(luasTrapesium + luasSisiMiring + luasAlasBawah + luasAlasAtas);  }  } |

**Listing 3.11** CPrismaTrapesium.java

|  |
| --- |
| package project.bangunruang.controller;  import project.bangundatar.controller.CLingkaran;  public class CTabung extends CLingkaran implements BangunRuang{  private final double PHI = 3.14;  public CTabung(double jariJari, double tinggi) {  super(jariJari);  setA(jariJari);  setB(tinggi);  System.out.println(jariJari);  System.out.println(tinggi);    }  @Override  public void volume() {  double jariJari=getA();  double tinggi=getB();  setVolume(((Math.pow(jariJari,2))\*tinggi)\*PHI);    }  @Override  public void luasPermukaan() {  double jariJari=getA();  double tinggi=getB();  setLuasPermukaan(((2\*(PHI\*jariJari))\*(jariJari+tinggi)));    }    } |

**Listing 3.12** CTabung.java

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| package project.bangunruang.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.view.\*;  import project.bangunruang.controller.CBalok;  import project.main.MainMenu;  public class Balok extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public Balok() {  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() {  PersegiPanjang = new javax.swing.JPanel();  LblMassukanPanjang = new javax.swing.JLabel();  IPanjang = new javax.swing.JTextField();  BtnReset = new javax.swing.JButton();  BtnHitung = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanTinggi = new javax.swing.JLabel();  ITinggi = new javax.swing.JTextField();  LblVolume = new javax.swing.JLabel();  LblLuasPermukaan = new javax.swing.JLabel();  OVolume = new javax.swing.JTextField();  OLuasPermukaan = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  LblMassukanLebar = new javax.swing.JLabel();  ILebar = new javax.swing.JTextField();  Icon = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(0, 231, 0));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR BALOK", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  LblMassukanPanjang.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanPanjang.setText("Massukan Panjang ");  IPanjang.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IPanjangActionPerformed(evt);  }  });  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnHitung.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnHitung.setText("Hitung");  BtnHitung.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnHitungActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanTinggi.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanTinggi.setText("Massukan Tinggi ");  ITinggi.setAutoscrolls(false);  ITinggi.setFocusTraversalPolicyProvider(true);  ITinggi.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ITinggiActionPerformed(evt);  }  });  LblVolume.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblVolume.setText("Volume");  LblLuasPermukaan.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuasPermukaan.setText("Luas Permukaan");  OVolume.setEditable(false);  OVolume.setBackground(new java.awt.Color(204, 204, 204));  OVolume.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OVolumeActionPerformed(evt);  }  });  OLuasPermukaan.setEditable(false);  OLuasPermukaan.setBackground(new java.awt.Color(204, 204, 204));  OLuasPermukaan.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasPermukaanActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  LblMassukanLebar.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanLebar.setText("Massukan Lebar ");  ILebar.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ILebarActionPerformed(evt);  }  });  Icon.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/objects-icon.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblVolume)  .addComponent(LblLuasPermukaan))  .addGap(14, 14, 14))  .addComponent(LblMassukanTinggi, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanLebar, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanPanjang))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(202, 202, 202)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(89, 89, 89)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.DEFAULT\_SIZE, 643, Short.MAX\_VALUE)  .addComponent(OVolume))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  .addComponent(IPanjang, javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.LEADING, PersegiPanjangLayout.createSequentialGroup()  .addComponent(ITinggi, javax.swing.GroupLayout.PREFERRED\_SIZE, 533, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addComponent(ILebar, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, 644, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(266, 266, 266)  .addComponent(LblHasil)))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel1)  .addGap(30, 30, 30))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jPanel2, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(70, 70, 70)  .addComponent(Icon)  .addGap(198, 198, 198)  .addComponent(jLabel2)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel4)  .addGap(9, 9, 9)))  .addContainerGap())))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jLabel4)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addGap(21, 21, 21)  .addComponent(Icon)))  .addComponent(jLabel2))  .addGap(18, 18, 18)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 17, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(IPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanPanjang))  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ILebar, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanLebar))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ITinggi, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanTinggi)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(31, 31, 31)  .addComponent(LblHasil))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(49, 49, 49)  .addComponent(jLabel1)))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OVolume, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblVolume))  .addGap(32, 32, 32)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuasPermukaan))  .addGap(34, 34, 34)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void IPanjangActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IPanjangActionPerformed    }//GEN-LAST:event\_IPanjangActionPerformed  private void ITinggiActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ITinggiActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ITinggiActionPerformed  private void OVolumeActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OVolumeActionPerformed    }//GEN-LAST:event\_OVolumeActionPerformed  private void OLuasPermukaanActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasPermukaanActionPerformed    }//GEN-LAST:event\_OLuasPermukaanActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  ITinggi.setText(" ");  ILebar.setText(" ");  IPanjang.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void ILebarActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ILebarActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ILebarActionPerformed  private void BtnHitungActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnHitungActionPerformed  try{  String TmpPanjang = IPanjang.getText();  double panjang = Double.parseDouble(TmpPanjang);  String TmpLebar = ILebar.getText();  double tinggi = Double.parseDouble(TmpLebar);  String TmpTinggi = ILebar.getText();  double lebar = Double.parseDouble(TmpTinggi);  CBalok cBalok = new CBalok(panjang,lebar,tinggi);  cBalok.volume();  cBalok.luasPermukaan();  double TmpVolume = cBalok.getVolume();  String volume = Double.toString(TmpVolume);  OVolume.setText(volume);  double TmpLuasPermukaan = cBalok.getLuasPermukaan();  String luasPermukaan = Double.toString(TmpLuasPermukaan);  OLuasPermukaan.setText(luasPermukaan);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IPanjang.setText(" ");  ILebar.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IPanjang.setText(" ");  ILebar.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  }//GEN-LAST:event\_BtnHitungActionPerformed  /\*\*  \* @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(Balok.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Balok.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Balok.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Balok.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new Balok().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnHitung;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField ILebar;  private javax.swing.JTextField IPanjang;  private javax.swing.JTextField ITinggi;  private javax.swing.JLabel Icon;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblLuasPermukaan;  private javax.swing.JLabel LblMassukanLebar;  private javax.swing.JLabel LblMassukanPanjang;  private javax.swing.JLabel LblMassukanTinggi;  private javax.swing.JLabel LblVolume;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OLuasPermukaan;  private javax.swing.JTextField OVolume;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 3.13** Balok.java

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| --- |
| package project.bangunruang.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.view.\*;  import project.bangunruang.controller.CBola;  import project.main.MainMenu;  public class Bola extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public Bola() {  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() {  PersegiPanjang = new javax.swing.JPanel();  LblMassukanJariJari = new javax.swing.JLabel();  IJariJari = new javax.swing.JTextField();  BtnReset = new javax.swing.JButton();  BtnHasil = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblVolume = new javax.swing.JLabel();  LblLuasPermukaan = new javax.swing.JLabel();  OVolume = new javax.swing.JTextField();  OLuasPermukaan = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  Icon = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(0, 231, 0));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR BOLA", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  LblMassukanJariJari.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanJariJari.setText("Massukan Jari Jari");  IJariJari.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IJariJariActionPerformed(evt);  }  });  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnHasil.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnHasil.setText("Hitung");  BtnHasil.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnHasilActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblVolume.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblVolume.setText("Volume");  LblLuasPermukaan.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuasPermukaan.setText("Luas Permukaan");  OVolume.setEditable(false);  OVolume.setBackground(new java.awt.Color(204, 204, 204));  OVolume.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OVolumeActionPerformed(evt);  }  });  OLuasPermukaan.setEditable(false);  OLuasPermukaan.setBackground(new java.awt.Color(204, 204, 204));  OLuasPermukaan.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasPermukaanActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  Icon.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/objects-icon.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(LblLuasPermukaan)  .addGap(8, 8, 8))  .addComponent(LblVolume, javax.swing.GroupLayout.Alignment.LEADING))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(202, 202, 202)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(89, 89, 89)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.DEFAULT\_SIZE, 643, Short.MAX\_VALUE)  .addComponent(OVolume))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(272, 272, 272)  .addComponent(LblHasil)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel1)  .addGap(38, 38, 38))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(LblMassukanJariJari)  .addGap(18, 18, 18)  .addComponent(IJariJari, javax.swing.GroupLayout.PREFERRED\_SIZE, 529, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(BtnHasil, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(74, 74, 74)  .addComponent(Icon)  .addGap(195, 195, 195)  .addComponent(jLabel2)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel4)  .addGap(21, 21, 21)))  .addContainerGap())))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(21, 21, 21)  .addComponent(Icon))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel4)  .addComponent(jLabel2)))  .addGap(18, 18, 18)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 53, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(IJariJari, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnHasil, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanJariJari))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(52, 52, 52)  .addComponent(LblHasil))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(22, 22, 22)  .addComponent(jLabel1)))  .addGap(22, 22, 22)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OVolume, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblVolume))  .addGap(34, 34, 34)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuasPermukaan))  .addGap(51, 51, 51)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void IJariJariActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IJariJariActionPerformed    }//GEN-LAST:event\_IJariJariActionPerformed  private void OVolumeActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OVolumeActionPerformed    }//GEN-LAST:event\_OVolumeActionPerformed  private void OLuasPermukaanActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasPermukaanActionPerformed    }//GEN-LAST:event\_OLuasPermukaanActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  IJariJari.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void BtnHasilActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnHasilActionPerformed  try{  String TmpJariJari = IJariJari.getText();  double jariJari = Double.parseDouble(TmpJariJari);  CBola cBola = new CBola(jariJari);  cBola.volume();  cBola.luasPermukaan();  double TmpVolume = cBola.getVolume();  String volume = Double.toString(TmpVolume);  OVolume.setText(volume);  double TmpLuasPermukaan = cBola.getLuasPermukaan();  String luasPermukaan = Double.toString(TmpLuasPermukaan);  OLuasPermukaan.setText(luasPermukaan);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IJariJari.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IJariJari.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  }//GEN-LAST:event\_BtnHasilActionPerformed  /\*\*  \* @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(Bola.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Bola.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Bola.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Bola.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new Bola().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnHasil;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField IJariJari;  private javax.swing.JLabel Icon;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblLuasPermukaan;  private javax.swing.JLabel LblMassukanJariJari;  private javax.swing.JLabel LblVolume;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OLuasPermukaan;  private javax.swing.JTextField OVolume;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 3.14** Bola.java

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| package project.bangunruang.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.view.\*;  import project.bangunruang.controller.CKerucut;  import project.main.MainMenu;  public class Kerucut extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public Kerucut() {  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() {  PersegiPanjang = new javax.swing.JPanel();  LblMassukanJariJari = new javax.swing.JLabel();  IJariJari = new javax.swing.JTextField();  BtnReset = new javax.swing.JButton();  BtnHitung = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanTinggi = new javax.swing.JLabel();  LblVolume = new javax.swing.JLabel();  LblLuasPermukaan = new javax.swing.JLabel();  OVolume = new javax.swing.JTextField();  OLuasPermukaan = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  Icon = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  ITinggi = new javax.swing.JTextField();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(0, 231, 0));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR KERUCUT", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  LblMassukanJariJari.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanJariJari.setText("Massukan Jari Jari");  IJariJari.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IJariJariActionPerformed(evt);  }  });  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnHitung.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnHitung.setText("Hitung");  BtnHitung.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnHitungActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanTinggi.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanTinggi.setText("Massukan Tinggi ");  LblVolume.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblVolume.setText("Volume");  LblLuasPermukaan.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuasPermukaan.setText("Luas Permukaan");  OVolume.setEditable(false);  OVolume.setBackground(new java.awt.Color(204, 204, 204));  OVolume.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OVolumeActionPerformed(evt);  }  });  OLuasPermukaan.setEditable(false);  OLuasPermukaan.setBackground(new java.awt.Color(204, 204, 204));  OLuasPermukaan.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasPermukaanActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  Icon.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/objects-icon.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  ITinggi.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ITinggiActionPerformed(evt);  }  });  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanJariJari)  .addComponent(LblLuasPermukaan))  .addComponent(LblMassukanTinggi, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblVolume, javax.swing.GroupLayout.Alignment.LEADING))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(202, 202, 202)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(89, 89, 89)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(IJariJari, javax.swing.GroupLayout.PREFERRED\_SIZE, 644, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(ITinggi, javax.swing.GroupLayout.PREFERRED\_SIZE, 527, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(18, 18, 18)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(254, 254, 254)  .addComponent(LblHasil)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel1))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.DEFAULT\_SIZE, 643, Short.MAX\_VALUE)  .addComponent(OVolume))))  .addGap(35, 35, 35))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE)))  .addContainerGap())  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(53, 53, 53)  .addComponent(Icon)  .addGap(211, 211, 211)  .addComponent(jLabel2)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel4)  .addGap(33, 33, 33))))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel2)  .addComponent(jLabel4))  .addGap(30, 30, 30))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addComponent(Icon)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)))  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(18, 18, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(IJariJari, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanJariJari))  .addGap(38, 38, 38)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(LblMassukanTinggi)  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(ITinggi, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(42, 42, 42)  .addComponent(LblHasil))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(21, 21, 21)  .addComponent(jLabel1)))  .addGap(13, 13, 13)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OVolume, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblVolume))  .addGap(34, 34, 34)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuasPermukaan))  .addGap(51, 51, 51)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void IJariJariActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IJariJariActionPerformed    }//GEN-LAST:event\_IJariJariActionPerformed  private void OVolumeActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OVolumeActionPerformed    }//GEN-LAST:event\_OVolumeActionPerformed  private void OLuasPermukaanActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasPermukaanActionPerformed    }//GEN-LAST:event\_OLuasPermukaanActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  ITinggi.setText(" ");  IJariJari.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void BtnHitungActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnHitungActionPerformed  try{  String TmpJariJari = IJariJari.getText();  double jariJari = Double.parseDouble(TmpJariJari);  String TmpTinggi = ITinggi.getText();  double tinggi = Double.parseDouble(TmpTinggi);  CKerucut cKerucut = new CKerucut(jariJari,tinggi);  cKerucut.volume();  cKerucut.luasPermukaan();  double TmpVolume = cKerucut.getVolume();  String volume = Double.toString(TmpVolume);  OVolume.setText(volume);  double TmpLuasPermukaan = cKerucut.getLuasPermukaan();  String luasPermukaan = Double.toString(TmpLuasPermukaan);  OLuasPermukaan.setText(luasPermukaan);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IJariJari.setText(" ");  ITinggi.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IJariJari.setText(" ");  ITinggi.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  }//GEN-LAST:event\_BtnHitungActionPerformed  private void ITinggiActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ITinggiActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ITinggiActionPerformed  /\*\*  \* @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(Kerucut.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Kerucut.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Kerucut.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Kerucut.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new Kerucut().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnHitung;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField IJariJari;  private javax.swing.JTextField ITinggi;  private javax.swing.JLabel Icon;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblLuasPermukaan;  private javax.swing.JLabel LblMassukanJariJari;  private javax.swing.JLabel LblMassukanTinggi;  private javax.swing.JLabel LblVolume;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OLuasPermukaan;  private javax.swing.JTextField OVolume;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 3.15** Kerucut.java

|  |
| --- |
| package project.bangunruang.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.controller.CPersegi;  import project.bangunruang.controller.CKubus;  import project.bangundatar.view.\*;  import project.main.MainMenu;  public class Kubus extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public Kubus() {  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() {  PersegiPanjang = new javax.swing.JPanel();  BtnReset = new javax.swing.JButton();  BtnHails = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanSisi = new javax.swing.JLabel();  LblVolume = new javax.swing.JLabel();  LblLuasPermukaan = new javax.swing.JLabel();  OVolume = new javax.swing.JTextField();  OLuasPermukaan = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  Icon = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  ISisi = new javax.swing.JTextField();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(0, 231, 0));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR KUBUS", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnHails.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnHails.setText("Hitung");  BtnHails.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnHailsActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanSisi.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanSisi.setText("Massukan Sisi ");  LblVolume.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblVolume.setText("Volume");  LblLuasPermukaan.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuasPermukaan.setText("Luas Permukaan");  OVolume.setEditable(false);  OVolume.setBackground(new java.awt.Color(204, 204, 204));  OVolume.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OVolumeActionPerformed(evt);  }  });  OLuasPermukaan.setEditable(false);  OLuasPermukaan.setBackground(new java.awt.Color(204, 204, 204));  OLuasPermukaan.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasPermukaanActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  Icon.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/objects-icon.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  ISisi.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ISisiActionPerformed(evt);  }  });  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(LblMassukanSisi, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblVolume, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblLuasPermukaan, javax.swing.GroupLayout.Alignment.LEADING))  .addGap(12, 12, 12)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(202, 202, 202)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(84, 84, 84)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(OVolume, javax.swing.GroupLayout.PREFERRED\_SIZE, 643, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(ISisi, javax.swing.GroupLayout.PREFERRED\_SIZE, 533, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addComponent(BtnHails, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.PREFERRED\_SIZE, 643, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jPanel2, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(46, 46, 46)  .addComponent(Icon)  .addGap(219, 219, 219)  .addComponent(jLabel2)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel4)  .addGap(27, 27, 27)))  .addContainerGap())))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(386, 386, 386)  .addComponent(LblHasil)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel1)  .addGap(36, 36, 36))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel2)  .addComponent(jLabel4))  .addGap(30, 30, 30))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addComponent(Icon)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)))  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(44, 44, 44)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(LblMassukanSisi)  .addComponent(BtnHails, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(ISisi, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(44, 44, 44)  .addComponent(LblHasil))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(28, 28, 28)  .addComponent(jLabel1)))  .addGap(16, 16, 16)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OVolume, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblVolume))  .addGap(37, 37, 37)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuasPermukaan))  .addGap(52, 52, 52)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 58, Short.MAX\_VALUE)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void OVolumeActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OVolumeActionPerformed    }//GEN-LAST:event\_OVolumeActionPerformed  private void OLuasPermukaanActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasPermukaanActionPerformed    }//GEN-LAST:event\_OLuasPermukaanActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  ISisi.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void BtnHailsActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnHailsActionPerformed  try{  String Tmpsisi = ISisi.getText();  double sisi = Double.parseDouble(Tmpsisi);  CKubus cKubus = new CKubus(sisi);  cKubus.volume();  cKubus.luasPermukaan();  double TmpVolume = cKubus.getVolume();  String volume = Double.toString(TmpVolume);  OVolume.setText(volume);  double TmpLuasPermukaan = cKubus.getLuasPermukaan();  String luasPermukaan = Double.toString(TmpLuasPermukaan);  OLuasPermukaan.setText(luasPermukaan);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ISisi.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ISisi.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  }//GEN-LAST:event\_BtnHailsActionPerformed  private void ISisiActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ISisiActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ISisiActionPerformed  /\*\*  \* @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(Kubus.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Kubus.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Kubus.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Kubus.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new Kubus().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnHails;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField ISisi;  private javax.swing.JLabel Icon;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblLuasPermukaan;  private javax.swing.JLabel LblMassukanSisi;  private javax.swing.JLabel LblVolume;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OLuasPermukaan;  private javax.swing.JTextField OVolume;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 3.16** Kubus.java

|  |
| --- |
| package project.bangunruang.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.view.Segitiga;  import project.bangunruang.controller.CLimasPersegi;  import project.bangunruang.controller.CLimasSegitiga;  import project.main.MainMenu;  public class Limas extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public Limas() {  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() {  Limas = new javax.swing.ButtonGroup();  PersegiPanjang = new javax.swing.JPanel();  LblMassukanLAlas = new javax.swing.JLabel();  IAlasOrSisi = new javax.swing.JTextField();  BtnReset = new javax.swing.JButton();  BtnHitung = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanTinggiAlas = new javax.swing.JLabel();  ITinggiAlas = new javax.swing.JTextField();  LblVolume = new javax.swing.JLabel();  LblLuasPermukaan = new javax.swing.JLabel();  OVolume = new javax.swing.JTextField();  OLuasPermukaan = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  Icon = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  RSegitiga = new javax.swing.JRadioButton();  RPersegi = new javax.swing.JRadioButton();  ITinggi = new javax.swing.JTextField();  LblMassukanTinggiLimas = new javax.swing.JLabel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(0, 231, 0));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR LIMAS", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  LblMassukanLAlas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanLAlas.setText("Massukan Sisi/Alas");  if(RSegitiga.isSelected() || RPersegi.isSelected()){  IAlasOrSisi.setEditable(true);  }  IAlasOrSisi.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IAlasOrSisiActionPerformed(evt);  }  });  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnHitung.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnHitung.setText("Hitung");  BtnHitung.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnHitungActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanTinggiAlas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanTinggiAlas.setText("Massukan Tinggi Alas");  ITinggiAlas.setAutoscrolls(false);  ITinggiAlas.setFocusTraversalPolicyProvider(true);  ITinggiAlas.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ITinggiAlasActionPerformed(evt);  }  });  LblVolume.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblVolume.setText("Volume");  LblLuasPermukaan.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuasPermukaan.setText("Luas Permukaan");  OVolume.setEditable(false);  OVolume.setBackground(new java.awt.Color(204, 204, 204));  OVolume.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OVolumeActionPerformed(evt);  }  });  OLuasPermukaan.setEditable(false);  OLuasPermukaan.setBackground(new java.awt.Color(204, 204, 204));  OLuasPermukaan.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasPermukaanActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by :");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  Icon.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/objects-icon.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  Limas.add(RSegitiga);  RSegitiga.setText("Segitiga");  Limas.add(RPersegi);  RPersegi.setText("Persegi");  ITinggi.setAutoscrolls(false);  ITinggi.setFocusTraversalPolicyProvider(true);  ITinggi.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ITinggiActionPerformed(evt);  }  });  LblMassukanTinggiLimas.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanTinggiLimas.setText("Massukan Tinggi Limas");  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(LblVolume, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblLuasPermukaan, javax.swing.GroupLayout.Alignment.LEADING))  .addGap(37, 37, 37))  .addComponent(LblMassukanTinggiLimas, javax.swing.GroupLayout.Alignment.TRAILING))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(187, 187, 187)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(67, 67, 67)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.DEFAULT\_SIZE, 643, Short.MAX\_VALUE)  .addComponent(OVolume)))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(IAlasOrSisi, javax.swing.GroupLayout.DEFAULT\_SIZE, 644, Short.MAX\_VALUE)  .addComponent(ITinggiAlas)  .addComponent(ITinggi))))  .addContainerGap())  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addComponent(LblHasil)  .addGap(376, 376, 376))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(304, 304, 304)  .addComponent(jLabel1)  .addGap(27, 27, 27))))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jPanel2, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE)))  .addContainerGap())  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanLAlas)  .addComponent(LblMassukanTinggiAlas))  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(60, 60, 60)  .addComponent(Icon)  .addGap(208, 208, 208)  .addComponent(jLabel2)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel4)  .addGap(30, 30, 30))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(278, 278, 278)  .addComponent(RSegitiga)  .addGap(239, 239, 239)  .addComponent(RPersegi)  .addGap(0, 0, Short.MAX\_VALUE))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(Icon))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel4)  .addComponent(jLabel2))  .addGap(0, 10, Short.MAX\_VALUE)))  .addGap(18, 18, 18)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(28, 28, 28)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(LblMassukanLAlas)  .addComponent(IAlasOrSisi, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(LblMassukanTinggiAlas)  .addComponent(ITinggiAlas, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ITinggi, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanTinggiLimas))  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(RSegitiga)  .addComponent(RPersegi))  .addGap(1, 1, 1)  .addComponent(jLabel1)  .addGap(23, 23, 23))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(BtnHitung, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(18, 18, 18)  .addComponent(LblHasil)))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OVolume, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblVolume))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuasPermukaan))  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void IAlasOrSisiActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IAlasOrSisiActionPerformed    }//GEN-LAST:event\_IAlasOrSisiActionPerformed  private void ITinggiAlasActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ITinggiAlasActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ITinggiAlasActionPerformed  private void OVolumeActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OVolumeActionPerformed    }//GEN-LAST:event\_OVolumeActionPerformed  private void OLuasPermukaanActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasPermukaanActionPerformed    }//GEN-LAST:event\_OLuasPermukaanActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  IAlasOrSisi.setText(" ");  ITinggi.setText(" ");  ITinggiAlas.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void BtnHitungActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnHitungActionPerformed  if(RSegitiga.isSelected()){  try{  String TmpAlasOrSisi = IAlasOrSisi.getText();  double alas = Double.parseDouble(TmpAlasOrSisi);  String TmpTinggi = ITinggiAlas.getText();  double tinggi = Double.parseDouble(TmpTinggi);  String TmpTinggiSegitiga = ITinggiAlas.getText();  double tinggiSegitiga = Double.parseDouble(TmpTinggiSegitiga);  CLimasSegitiga cLimasSegitiga = new CLimasSegitiga(alas,tinggiSegitiga,tinggi);  cLimasSegitiga.volume();  cLimasSegitiga.luasPermukaan();  double TmpVolume = cLimasSegitiga.getVolume();  String volume = Double.toString(TmpVolume);  OVolume.setText(volume);  double TmpLuasPermukaan = cLimasSegitiga.getLuasPermukaan();  String luasPermukaan = Double.toString(TmpLuasPermukaan);  OLuasPermukaan.setText(luasPermukaan);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IAlasOrSisi.setText(" ");  ITinggiAlas.setText(" ");  ITinggi.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IAlasOrSisi.setText(" ");  ITinggiAlas.setText(" ");  ITinggi.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  }else if ((RPersegi.isSelected())){  try{  ITinggiAlas.setText(" ");  String TmpAlasOrSisi = IAlasOrSisi.getText();  double alas = Double.parseDouble(TmpAlasOrSisi);  String TmpTinggi = ITinggi.getText();  double tinggi = Double.parseDouble(TmpTinggi);  CLimasPersegi cLimasPersegi = new CLimasPersegi(alas,tinggi);  cLimasPersegi.volume();  cLimasPersegi.luasPermukaan();  double TmpVolume = cLimasPersegi.getVolume();  String volume = Double.toString(TmpVolume);  OVolume.setText(volume);  double TmpLuasPermukaan = cLimasPersegi.getLuasPermukaan();  String luasPermukaan = Double.toString(TmpLuasPermukaan);  OLuasPermukaan.setText(luasPermukaan);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IAlasOrSisi.setText(" ");  ITinggi.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IAlasOrSisi.setText(" ");  ITinggi.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }    }  }//GEN-LAST:event\_BtnHitungActionPerformed  private void ITinggiActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ITinggiActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ITinggiActionPerformed  /\*\*  \* @param args the command line arguments  \*/  public void main(String args[]) {  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new Limas().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnHitung;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField IAlasOrSisi;  private javax.swing.JTextField ITinggi;  private javax.swing.JTextField ITinggiAlas;  private javax.swing.JLabel Icon;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblLuasPermukaan;  private javax.swing.JLabel LblMassukanLAlas;  private javax.swing.JLabel LblMassukanTinggiAlas;  private javax.swing.JLabel LblMassukanTinggiLimas;  private javax.swing.JLabel LblVolume;  private javax.swing.ButtonGroup Limas;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OLuasPermukaan;  private javax.swing.JTextField OVolume;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JRadioButton RPersegi;  private javax.swing.JRadioButton RSegitiga;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 3.17** Limas.java

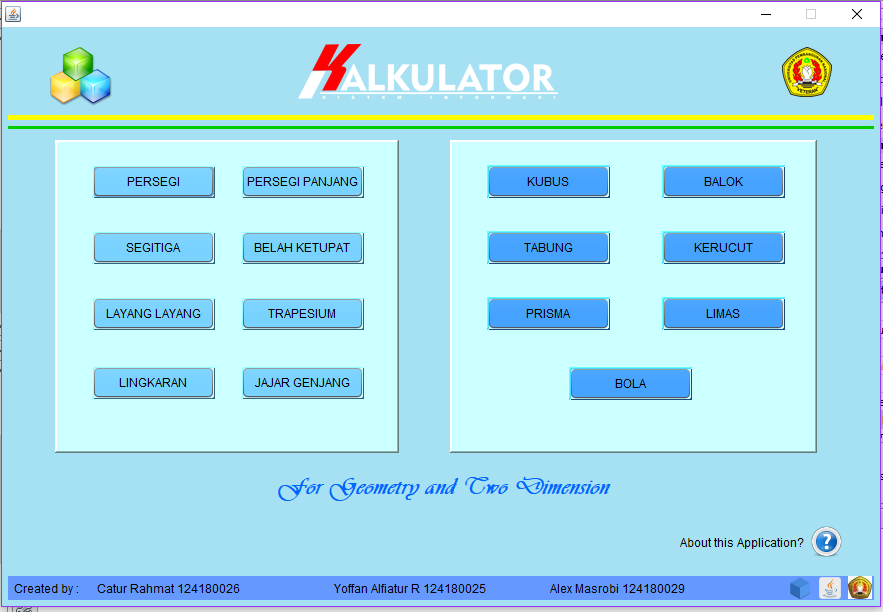
|  |
| --- |
| package project.bangunruang.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangunruang.controller.CPrismaSegiEmpat;  import project.bangunruang.controller.CPrismaSegitiga;  import project.bangunruang.controller.CPrismaJajarGenjang;  import project.bangunruang.controller.CPrismaTrapesium;  import project.main.MainMenu;  public class Prisma extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public Prisma() {  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() {  Prisma = new javax.swing.ButtonGroup();  PersegiPanjang = new javax.swing.JPanel();  LblMassukanSisi1 = new javax.swing.JLabel();  ISisi1 = new javax.swing.JTextField();  BtnReset = new javax.swing.JButton();  BtnCount = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanTinggiPrisma = new javax.swing.JLabel();  LblVolume = new javax.swing.JLabel();  LblLuasPermukaan = new javax.swing.JLabel();  OVolume = new javax.swing.JTextField();  OLuasPermukaan = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  LblMassukanTinggi = new javax.swing.JLabel();  ISisi2 = new javax.swing.JTextField();  Icon = new javax.swing.JLabel();  RSegitiga = new javax.swing.JRadioButton();  RTrapesium = new javax.swing.JRadioButton();  jPanel2 = new javax.swing.JPanel();  RSegiEmpat = new javax.swing.JRadioButton();  RJajarGenjang = new javax.swing.JRadioButton();  ITinggiPrisma = new javax.swing.JTextField();  ISisiMiring = new javax.swing.JTextField();  LblMassukanTinggiPrisma1 = new javax.swing.JLabel();  jLabel3 = new javax.swing.JLabel();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(0, 231, 0));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR PRISMA", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  LblMassukanSisi1.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanSisi1.setText("Alas/Sisi 1");  ISisi1.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ISisi1ActionPerformed(evt);  }  });  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnCount.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnCount.setText("Hitung");  BtnCount.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnCountActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanTinggiPrisma.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanTinggiPrisma.setText("Massukan Tinggi P ");  LblVolume.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblVolume.setText("Volume");  LblLuasPermukaan.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuasPermukaan.setText("Luas Permukaan");  OVolume.setEditable(false);  OVolume.setBackground(new java.awt.Color(204, 204, 204));  OVolume.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OVolumeActionPerformed(evt);  }  });  OLuasPermukaan.setEditable(false);  OLuasPermukaan.setBackground(new java.awt.Color(204, 204, 204));  OLuasPermukaan.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasPermukaanActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  LblMassukanTinggi.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanTinggi.setText("Tinggi/Sisi 2");  ISisi2.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ISisi2ActionPerformed(evt);  }  });  Icon.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/objects-icon.png"))); // NOI18N  Prisma.add(RSegitiga);  RSegitiga.setText("Segitiga");  Prisma.add(RTrapesium);  RTrapesium.setText("Trapesium");  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  Prisma.add(RSegiEmpat);  RSegiEmpat.setText("Segi Empat");  Prisma.add(RJajarGenjang);  RJajarGenjang.setText("JajarGenjang");  ITinggiPrisma.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ITinggiPrismaActionPerformed(evt);  }  });  ISisiMiring.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ISisiMiringActionPerformed(evt);  }  });  LblMassukanTinggiPrisma1.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanTinggiPrisma1.setText("Massukan Sisi M ");  jLabel3.setFont(new java.awt.Font("Arial", 3, 11)); // NOI18N  jLabel3.setForeground(new java.awt.Color(255, 0, 0));  jLabel3.setText("\*Mohon Input Menyesuaikan Dengan Field Yang Tersedia");  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(LblMassukanTinggi)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(LblLuasPermukaan, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblVolume, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanTinggiPrisma, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanTinggiPrisma1, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanSisi1, javax.swing.GroupLayout.Alignment.LEADING))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.DEFAULT\_SIZE, 643, Short.MAX\_VALUE)  .addComponent(OVolume)))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(53, 53, 53)  .addComponent(RSegitiga)  .addGap(87, 87, 87)  .addComponent(RSegiEmpat)  .addGap(68, 68, 68)  .addComponent(RTrapesium)  .addGap(66, 66, 66)  .addComponent(RJajarGenjang))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(264, 264, 264)  .addComponent(BtnCount, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addGap(2, 64, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  .addComponent(ISisiMiring, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(ISisi1, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(ISisi2, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, 644, Short.MAX\_VALUE)  .addComponent(ITinggiPrisma, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, 644, Short.MAX\_VALUE))  .addGap(0, 0, Short.MAX\_VALUE)))))  .addGap(44, 44, 44)  .addComponent(jLabel1)  .addGap(32, 32, 32))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(201, 201, 201)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(88, 88, 88)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jPanel2, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(36, 36, 36)  .addComponent(Icon)  .addGap(246, 246, 246)  .addComponent(jLabel2)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel4)  .addGap(22, 22, 22)))  .addContainerGap())))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(382, 382, 382)  .addComponent(LblHasil)  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addContainerGap(588, Short.MAX\_VALUE)  .addComponent(jLabel3)  .addGap(18, 18, 18))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(21, 21, 21)  .addComponent(Icon))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel4)  .addComponent(jLabel2)))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(24, 24, 24)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ISisi1, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanSisi1))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(LblMassukanTinggi)  .addComponent(ISisi2, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(LblMassukanTinggiPrisma)  .addComponent(ITinggiPrisma, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(12, 12, 12)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(ISisiMiring, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanTinggiPrisma1))  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(RSegiEmpat)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(RJajarGenjang)  .addComponent(RSegitiga)  .addComponent(RTrapesium)))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(26, 26, 26)  .addComponent(BtnCount, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, PersegiPanjangLayout.createSequentialGroup()  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(jLabel1)))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(LblHasil)  .addGap(7, 7, 7)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OVolume, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblVolume))  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuasPermukaan))  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(16, 16, 16)  .addComponent(jLabel3)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void ISisi1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ISisi1ActionPerformed    }//GEN-LAST:event\_ISisi1ActionPerformed  private void OVolumeActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OVolumeActionPerformed    }//GEN-LAST:event\_OVolumeActionPerformed  private void OLuasPermukaanActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasPermukaanActionPerformed    }//GEN-LAST:event\_OLuasPermukaanActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  ISisi2.setText(" ");  ISisi1.setText(" ");  ISisiMiring.setText(" ");  ITinggiPrisma.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void ISisi2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ISisi2ActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ISisi2ActionPerformed  private void BtnCountActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnCountActionPerformed  if(RSegitiga.isSelected()){  ISisiMiring.setText(" ");  try{  String TmpAlas = ISisi1.getText();  double alas = Double.parseDouble(TmpAlas);  String TmpTinggi = ISisi2.getText();  double tinggi = Double.parseDouble(TmpTinggi);  String TmpTinggiPrisma = ITinggiPrisma.getText();  double tinggiPrisma = Double.parseDouble(TmpTinggiPrisma);  CPrismaSegitiga cPrismaSegitiga = new CPrismaSegitiga(alas,tinggi,tinggiPrisma);  cPrismaSegitiga.volume();  cPrismaSegitiga.luasPermukaan();  double TmpVolume = cPrismaSegitiga.getVolume();  String volume = Double.toString(TmpVolume);  OVolume.setText(volume);  double TmpLuasPermukaan = cPrismaSegitiga.getLuasPermukaan();  String luasPermukaan = Double.toString(TmpLuasPermukaan);  OLuasPermukaan.setText(luasPermukaan);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ITinggiPrisma.setText(" ");  ISisi2.setText(" ");  ISisi1.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ITinggiPrisma.setText(" ");  ISisi2.setText(" ");  ISisi1.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }  }else if ((RSegiEmpat.isSelected())){  ISisi2.setText(" ");  ISisiMiring.setText(" ");  try{  String TmpAlas = ISisi1.getText();  double alas = Double.parseDouble(TmpAlas);  String TmpTinggi = ITinggiPrisma.getText();  double tinggi = Double.parseDouble(TmpTinggi);  CPrismaSegiEmpat cPrismaSegiEmpat = new CPrismaSegiEmpat(alas,tinggi);  cPrismaSegiEmpat.volume();  cPrismaSegiEmpat.luasPermukaan();  double TmpVolume = cPrismaSegiEmpat.getVolume();  String volume = Double.toString(TmpVolume);  OVolume.setText(volume);  double TmpLuasPermukaan = cPrismaSegiEmpat.getLuasPermukaan();  String luasPermukaan = Double.toString(TmpLuasPermukaan);  OLuasPermukaan.setText(luasPermukaan);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ISisi2.setText(" ");  ISisi1.setText(" ");  ISisiMiring.setText(" ");  ITinggiPrisma.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ISisi2.setText(" ");  ISisi1.setText(" ");  ISisiMiring.setText(" ");  ITinggiPrisma.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }    }else if(RJajarGenjang.isSelected()){    try{  String TmpAlas = ISisi1.getText();  double alas = Double.parseDouble(TmpAlas);  String TmpTinggi = ISisi2.getText();  double tinggi = Double.parseDouble(TmpTinggi);  String TmpTinggiPrisma = ITinggiPrisma.getText();  double tinggiPrisma = Double.parseDouble(TmpTinggiPrisma);  String TmpSisiMiring = ISisiMiring.getText();  double sisiMiring = Double.parseDouble(TmpSisiMiring);  CPrismaJajarGenjang cPrismaJajarGenjang = new CPrismaJajarGenjang(alas,tinggi,tinggiPrisma,sisiMiring);  cPrismaJajarGenjang.volume();  cPrismaJajarGenjang.luasPermukaan();  double TmpVolume = cPrismaJajarGenjang.getVolume();  String volume = Double.toString(TmpVolume);  OVolume.setText(volume);  double TmpLuasPermukaan = cPrismaJajarGenjang.getLuasPermukaan();  String luasPermukaan = Double.toString(TmpLuasPermukaan);  OLuasPermukaan.setText(luasPermukaan);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ISisi1.setText(" ");  ISisiMiring.setText(" ");  ITinggiPrisma.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ISisi1.setText(" ");  ISisiMiring.setText(" ");  ITinggiPrisma.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }  }else if(RTrapesium.isSelected()){    try{  String TmpSisi1 = ISisi1.getText();  double sisi1 = Double.parseDouble(TmpSisi1);  String TmpSisi2 = ISisi2.getText();  double sisi2 = Double.parseDouble(TmpSisi2);  String TmpTinggiPrisma = ITinggiPrisma.getText();  double tinggiPrisma = Double.parseDouble(TmpTinggiPrisma);  String TmpSisiMiring = ISisiMiring.getText();  double sisiMiring = Double.parseDouble(TmpSisiMiring);  CPrismaTrapesium cPrismaTrapesium = new CPrismaTrapesium(sisi1,sisi2,tinggiPrisma,sisiMiring);  cPrismaTrapesium.volume();  cPrismaTrapesium.luasPermukaan();  double TmpVolume = cPrismaTrapesium.getVolume();  String volume = Double.toString(TmpVolume);  OVolume.setText(volume);  double TmpLuasPermukaan = cPrismaTrapesium.getLuasPermukaan();  String luasPermukaan = Double.toString(TmpLuasPermukaan);  OLuasPermukaan.setText(luasPermukaan);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ISisi1.setText(" ");  ISisiMiring.setText(" ");  ITinggiPrisma.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  ISisi1.setText(" ");  ISisiMiring.setText(" ");  ITinggiPrisma.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }  }  }//GEN-LAST:event\_BtnCountActionPerformed  private void ITinggiPrismaActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ITinggiPrismaActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ITinggiPrismaActionPerformed  private void ISisiMiringActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ISisiMiringActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ISisiMiringActionPerformed  /\*\*  \* @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(Prisma.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Prisma.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Prisma.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Prisma.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new Prisma().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnCount;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField ISisi1;  private javax.swing.JTextField ISisi2;  private javax.swing.JTextField ISisiMiring;  private javax.swing.JTextField ITinggiPrisma;  private javax.swing.JLabel Icon;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblLuasPermukaan;  private javax.swing.JLabel LblMassukanSisi1;  private javax.swing.JLabel LblMassukanTinggi;  private javax.swing.JLabel LblMassukanTinggiPrisma;  private javax.swing.JLabel LblMassukanTinggiPrisma1;  private javax.swing.JLabel LblVolume;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OLuasPermukaan;  private javax.swing.JTextField OVolume;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.ButtonGroup Prisma;  private javax.swing.JRadioButton RJajarGenjang;  private javax.swing.JRadioButton RSegiEmpat;  private javax.swing.JRadioButton RSegitiga;  private javax.swing.JRadioButton RTrapesium;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel3;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 3.18** Prisma.java

|  |
| --- |
| package project.bangunruang.view;  import java.util.InputMismatchException;  import javax.swing.JOptionPane;  import project.bangundatar.view.\*;  import project.bangunruang.controller.CTabung;  import project.main.MainMenu;  /\*  \* To change this license header, choose License Headers in Project Properties.  \* To change this template file, choose Tools | Templates  \* and open the template in the editor.  \*/  /\*\*  \*  \* @author Catur Rahmat  \*/  public class Tabung extends javax.swing.JFrame {  /\*\*  \* Creates new form Square  \*/  public Tabung() {  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() {  PersegiPanjang = new javax.swing.JPanel();  LblMassukanJariJari = new javax.swing.JLabel();  IJariJari = new javax.swing.JTextField();  BtnReset = new javax.swing.JButton();  BtnCount = new javax.swing.JButton();  BtnBack = new javax.swing.JButton();  LblMassukanTinggi = new javax.swing.JLabel();  LblVolume = new javax.swing.JLabel();  LblLuasPermukaan = new javax.swing.JLabel();  OVolume = new javax.swing.JTextField();  OLuasPermukaan = new javax.swing.JTextField();  LblHasil = new javax.swing.JLabel();  jPanel1 = new javax.swing.JPanel();  NetbeansLogo = new javax.swing.JLabel();  JavaLogo = new javax.swing.JLabel();  CaturRahmat = new javax.swing.JLabel();  YoffanAlfiatur = new javax.swing.JLabel();  AlexMasrobi = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  PoweredBy = new javax.swing.JLabel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  Icon = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  ITinggi = new javax.swing.JTextField();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setResizable(false);  PersegiPanjang.setBackground(new java.awt.Color(0, 231, 0));  PersegiPanjang.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createEtchedBorder(), "KALKULATOR TABUNG", javax.swing.border.TitledBorder.DEFAULT\_JUSTIFICATION, javax.swing.border.TitledBorder.DEFAULT\_POSITION, new java.awt.Font("Arial Rounded MT Bold", 0, 18), new java.awt.Color(255, 255, 255))); // NOI18N  PersegiPanjang.setFocusable(false);  PersegiPanjang.setRequestFocusEnabled(false);  PersegiPanjang.setVerifyInputWhenFocusTarget(false);  LblMassukanJariJari.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanJariJari.setText("Massukan Jari Jari");  IJariJari.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  IJariJariActionPerformed(evt);  }  });  BtnReset.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Clear-icon.png"))); // NOI18N  BtnReset.setText(" Reset");  BtnReset.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnResetActionPerformed(evt);  }  });  BtnCount.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/calculator-icon.png"))); // NOI18N  BtnCount.setText("Hitung");  BtnCount.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnCountActionPerformed(evt);  }  });  BtnBack.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Go-back-icon.png"))); // NOI18N  BtnBack.setText("Back");  BtnBack.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  BtnBackActionPerformed(evt);  }  });  LblMassukanTinggi.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblMassukanTinggi.setText("Massukan Tinggi ");  LblVolume.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblVolume.setText("Volume");  LblLuasPermukaan.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N  LblLuasPermukaan.setText("Luas Permukaan");  OVolume.setEditable(false);  OVolume.setBackground(new java.awt.Color(204, 204, 204));  OVolume.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OVolumeActionPerformed(evt);  }  });  OLuasPermukaan.setEditable(false);  OLuasPermukaan.setBackground(new java.awt.Color(204, 204, 204));  OLuasPermukaan.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  OLuasPermukaanActionPerformed(evt);  }  });  LblHasil.setFont(new java.awt.Font("Square721 BT", 1, 12)); // NOI18N  LblHasil.setForeground(new java.awt.Color(255, 255, 255));  LblHasil.setText("HASIL PERHITUNGAN");  jPanel1.setBackground(new java.awt.Color(255, 255, 255));  NetbeansLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/netbeans-icon.png"))); // NOI18N  JavaLogo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Java-icon.png"))); // NOI18N  CaturRahmat.setText("Catur Rahmat 124180026");  YoffanAlfiatur.setText("Yoffan Alfiatur R 124180025");  AlexMasrobi.setText("Alex Masrobi 124180029");  jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Upnlogo.jpg"))); // NOI18N  PoweredBy.setText("Created by : ");  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(CaturRahmat)  .addGap(80, 80, 80)  .addComponent(YoffanAlfiatur)  .addGap(89, 89, 89)  .addComponent(AlexMasrobi)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 161, Short.MAX\_VALUE)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(NetbeansLogo)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(JavaLogo)  .addGap(2, 2, 2))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addComponent(JavaLogo))  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(CaturRahmat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(YoffanAlfiatur, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(AlexMasrobi, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(PoweredBy, javax.swing.GroupLayout.PREFERRED\_SIZE, 24, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(jPanel1Layout.createSequentialGroup()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel6)  .addComponent(NetbeansLogo))  .addGap(0, 0, Short.MAX\_VALUE))  );  jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/Filesystem-blockdevice-cubes-icon.png"))); // NOI18N  jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_2karkulator.png"))); // NOI18N  jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/rsz\_logo\_upn.png"))); // NOI18N  Icon.setIcon(new javax.swing.ImageIcon(getClass().getResource("/project/img/img/objects-icon.png"))); // NOI18N  jPanel2.setBackground(new java.awt.Color(255, 255, 0));  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 0, Short.MAX\_VALUE)  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGap(0, 8, Short.MAX\_VALUE)  );  ITinggi.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  ITinggiActionPerformed(evt);  }  });  javax.swing.GroupLayout PersegiPanjangLayout = new javax.swing.GroupLayout(PersegiPanjang);  PersegiPanjang.setLayout(PersegiPanjangLayout);  PersegiPanjangLayout.setHorizontalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addContainerGap()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(LblLuasPermukaan)  .addGap(8, 8, 8))  .addComponent(LblMassukanTinggi, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblVolume, javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(LblMassukanJariJari, javax.swing.GroupLayout.Alignment.LEADING))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.DEFAULT\_SIZE, 643, Short.MAX\_VALUE)  .addComponent(OVolume))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(202, 202, 202)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(89, 89, 89)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(21, 21, 21)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(IJariJari, javax.swing.GroupLayout.PREFERRED\_SIZE, 640, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(ITinggi, javax.swing.GroupLayout.PREFERRED\_SIZE, 533, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(BtnCount, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE)))))  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(254, 254, 254)  .addComponent(LblHasil)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel1)  .addGap(32, 32, 32))))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(79, 79, 79)  .addComponent(Icon)  .addGap(188, 188, 188)  .addComponent(jLabel2)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel4)  .addGap(23, 23, 23)))  .addContainerGap())))  );  PersegiPanjangLayout.setVerticalGroup(  PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(21, 21, 21)  .addComponent(Icon))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(jLabel4)  .addComponent(jLabel2)))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 22, Short.MAX\_VALUE)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(IJariJari, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblMassukanJariJari))  .addGap(18, 18, 18)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(LblMassukanTinggi)  .addComponent(BtnCount, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(ITinggi, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(42, 42, 42)  .addComponent(LblHasil))  .addGroup(PersegiPanjangLayout.createSequentialGroup()  .addGap(20, 20, 20)  .addComponent(jLabel1)))  .addGap(14, 14, 14)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OVolume, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblVolume))  .addGap(34, 34, 34)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(OLuasPermukaan, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(LblLuasPermukaan))  .addGap(51, 51, 51)  .addGroup(PersegiPanjangLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(BtnBack, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(BtnReset, javax.swing.GroupLayout.PREFERRED\_SIZE, 35, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(43, 43, 43)  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addContainerGap())  );  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(PersegiPanjang, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(PersegiPanjang, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>//GEN-END:initComponents  private void IJariJariActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_IJariJariActionPerformed    }//GEN-LAST:event\_IJariJariActionPerformed  private void OVolumeActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OVolumeActionPerformed    }//GEN-LAST:event\_OVolumeActionPerformed  private void OLuasPermukaanActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_OLuasPermukaanActionPerformed    }//GEN-LAST:event\_OLuasPermukaanActionPerformed  private void BtnResetActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnResetActionPerformed  //Btn Reset  ITinggi.setText(" ");  IJariJari.setText(" ");  OVolume.setText(" ");  OLuasPermukaan.setText(" ");  }//GEN-LAST:event\_BtnResetActionPerformed  private void BtnBackActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnBackActionPerformed  //BtnBack  MainMenu menu;  menu = new MainMenu();  menu.setVisible(true);  this.dispose();  }//GEN-LAST:event\_BtnBackActionPerformed  private void BtnCountActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_BtnCountActionPerformed  try{  String TmpJariJari = IJariJari.getText();  double jariJari = Double.parseDouble(TmpJariJari);  String TmpTinggi = ITinggi.getText();  double tinggi = Double.parseDouble(TmpTinggi);  CTabung cTabung = new CTabung(jariJari,tinggi);  cTabung.volume();  cTabung.luasPermukaan();  double TmpVolume = cTabung.getVolume();  String volume = Double.toString(TmpVolume);  OVolume.setText(volume);  double TmpLuasPermukaan = cTabung.getLuasPermukaan();  String luasPermukaan = Double.toString(TmpLuasPermukaan);  OLuasPermukaan.setText(luasPermukaan);  }catch (NumberFormatException check1){  JOptionPane.showMessageDialog(this, "Input Salah, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IJariJari.setText(" ");  ITinggi.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  catch (InputMismatchException check2){  JOptionPane.showMessageDialog(this, "Input Melebihi Max, Please Try Again","ERROR!!!",JOptionPane.WARNING\_MESSAGE);  IJariJari.setText(" ");  ITinggi.setText(" ");  OLuasPermukaan.setText(" ");  OVolume.setText(" ");  }  }//GEN-LAST:event\_BtnCountActionPerformed  private void ITinggiActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_ITinggiActionPerformed  // TODO add your handling code here:  }//GEN-LAST:event\_ITinggiActionPerformed  /\*\*  \* @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(Tabung.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Tabung.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Tabung.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Tabung.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  //</editor-fold>  /\* Create and display the form \*/  java.awt.EventQueue.invokeLater(() -> {  new Tabung().setVisible(true);  });  }  // Variables declaration - do not modify//GEN-BEGIN:variables  private javax.swing.JLabel AlexMasrobi;  private javax.swing.JButton BtnBack;  private javax.swing.JButton BtnCount;  private javax.swing.JButton BtnReset;  private javax.swing.JLabel CaturRahmat;  private javax.swing.JTextField IJariJari;  private javax.swing.JTextField ITinggi;  private javax.swing.JLabel Icon;  private javax.swing.JLabel JavaLogo;  private javax.swing.JLabel LblHasil;  private javax.swing.JLabel LblLuasPermukaan;  private javax.swing.JLabel LblMassukanJariJari;  private javax.swing.JLabel LblMassukanTinggi;  private javax.swing.JLabel LblVolume;  private javax.swing.JLabel NetbeansLogo;  private javax.swing.JTextField OLuasPermukaan;  private javax.swing.JTextField OVolume;  private javax.swing.JPanel PersegiPanjang;  private javax.swing.JLabel PoweredBy;  private javax.swing.JLabel YoffanAlfiatur;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel6;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  // End of variables declaration//GEN-END:variables  } |

**Listing 3.19** Tabung.java

**2. Gambar Output**

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**Gambar 2.1 Menu Utama**

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**Gambar 2.2 Persegi**

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**Gambar 2.3 Persegi Panjang**

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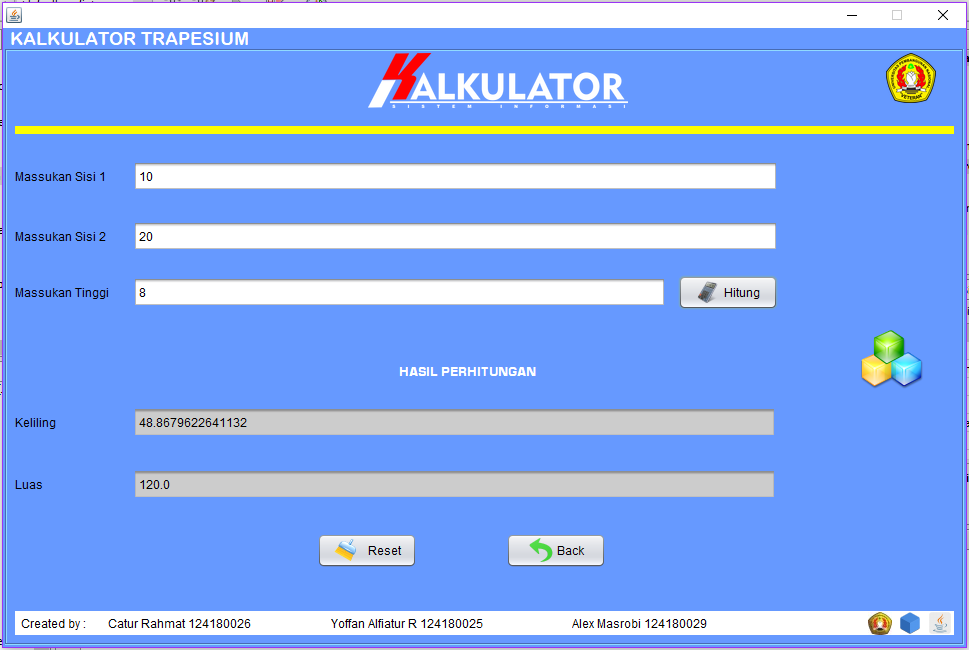
**Gambar 2.4 Segitiga**

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**Gambar 2.5 Belah Ketupat**

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**Gambar 2.6 Layang Layang**

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**Gambar 2.7 Trapesium**

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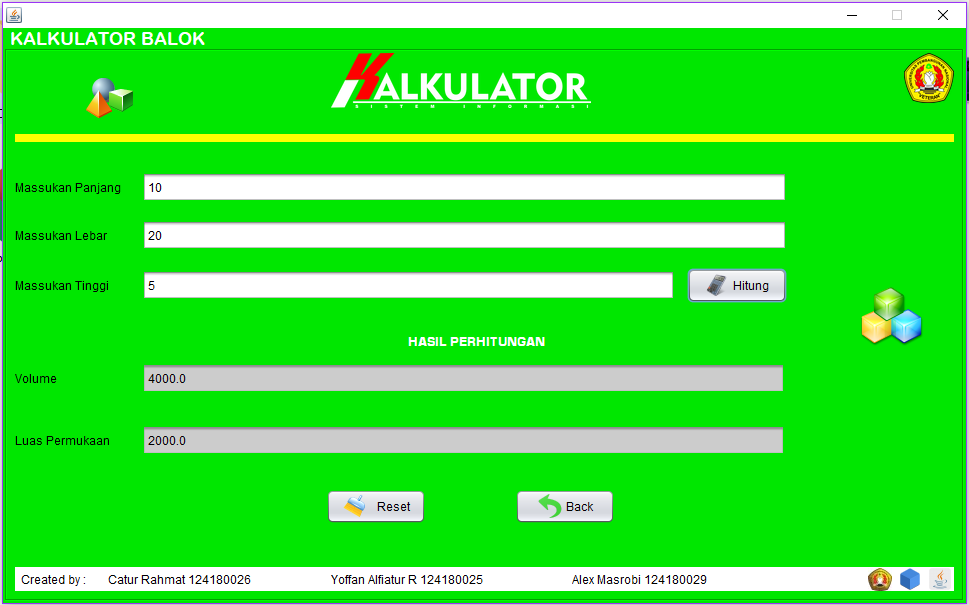
**Gambar 2.8 Jajar Genjang**

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**Gambar 2.9 Lingkaran**

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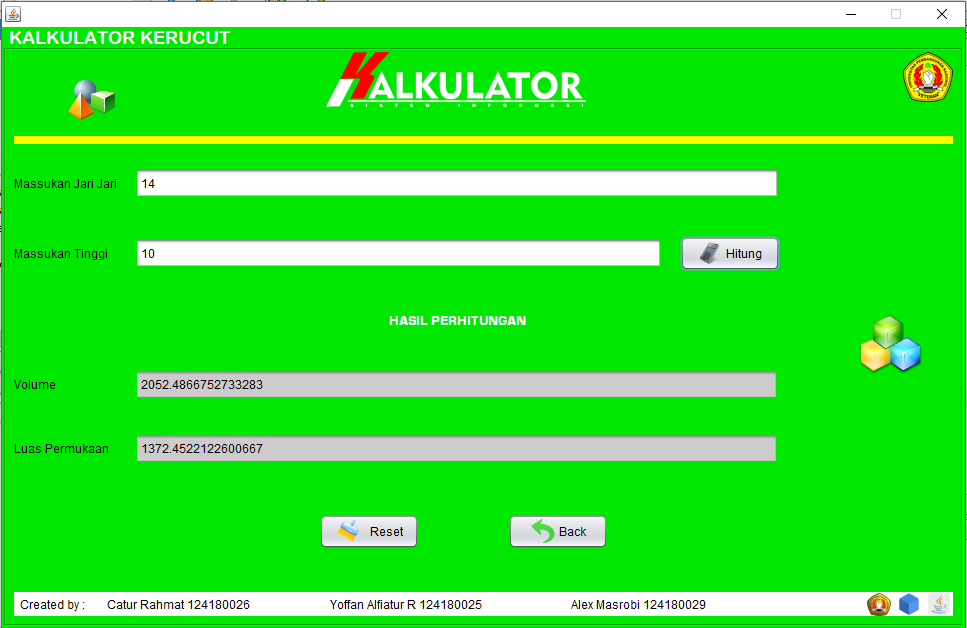
**Gambar 2.10 Kubus**

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**Gambar 2.11 Balok**

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**Gambar 2.12 Tabung**

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**Gambar 2.13 Kerucut**

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**Gambar 2.14 Prisma Segitiga**

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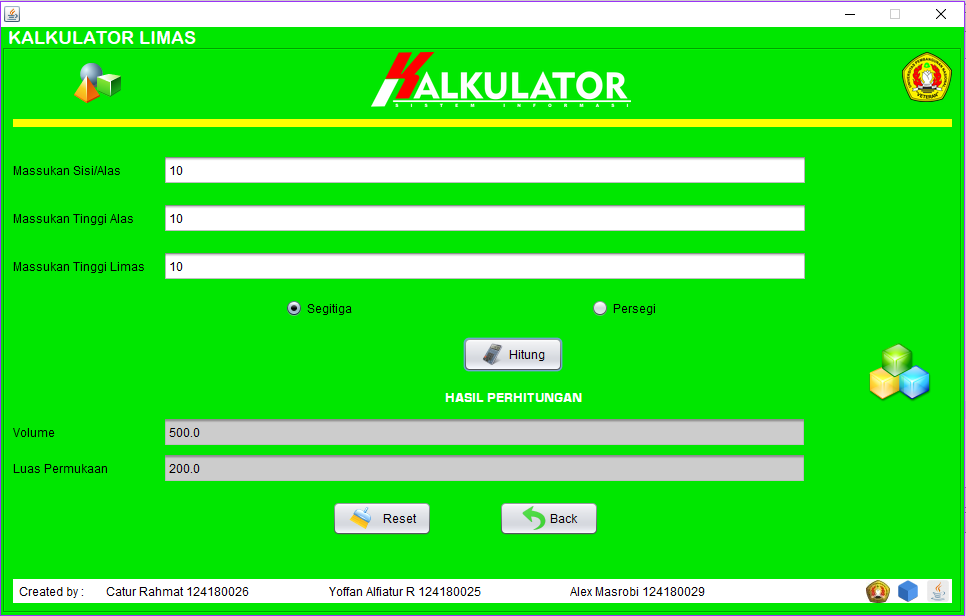
**Gambar 2.15 Prisma Segitiga**

****

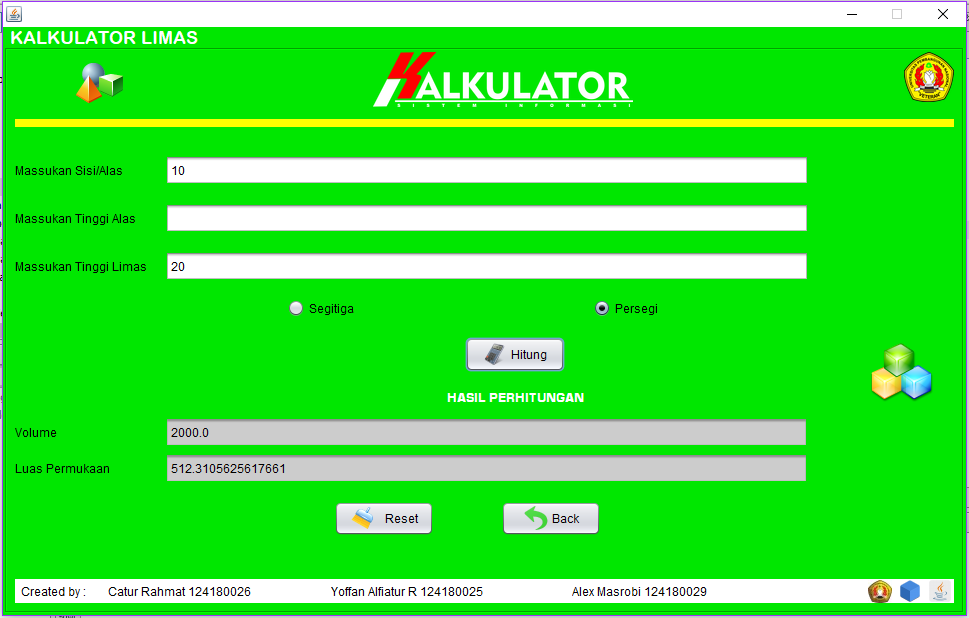
**Gambar 2.16 Prisma Jajar Genjang**

****

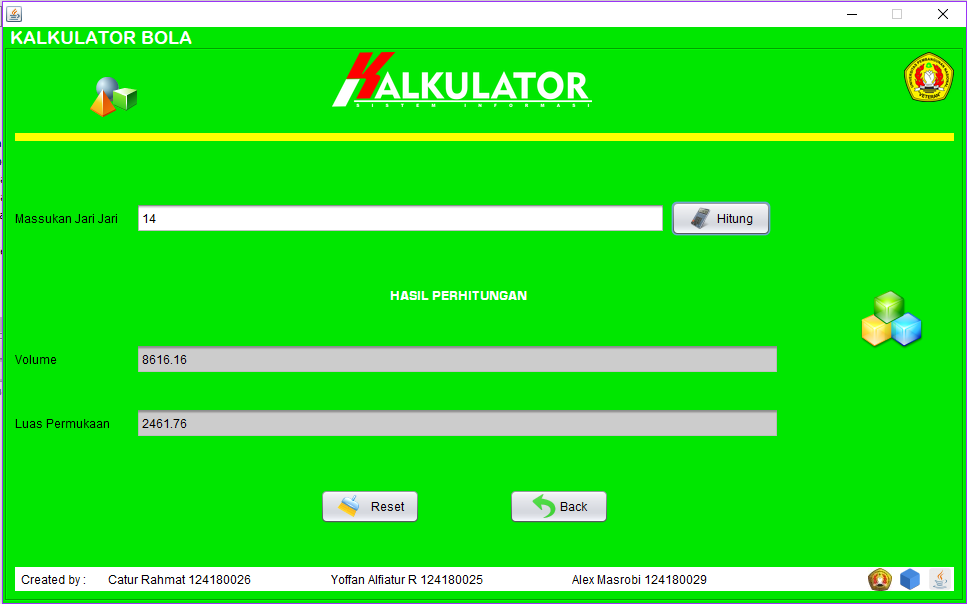
**Gambar 2.17 Prisma Trapesium**

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**Gambar 2.18 Limas Segitiga**

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**Gambar 2.19 Limas Persegi**

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**Gambar 2.19 Bola**

****

**Gambar 2.20 Tentang**