

LAPORAN UAS

PEMROGRAMAN BERORIENTASI OBJEK



Sistem Pendataan Toko Komputer Pemrograman Java & GUI

Java Swing

Disusun Oleh:

Muhammad Arif Rachman / 220916009

PROGRAM STUDI INFORMATIKA

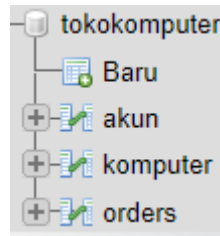
FAKULTAS TEKNIK

UNIVERSITAS MULAWARMAN

2024

Langkah-langkah Pembuatan Aplikasi CRUD Java menggunakan GUI Java Swing

1. Membuat database dengan nama 'tokokomputer' dan membuat tabel di dalam database dengan nama 'komputer', 'orders' dan 'akun' untuk menyimpan data toko komputer, melakukan pemesanan dan akun user yang telah registrasi.



Database

#	Nama	Jenis	Penyortiran	Atribut	Tak Ternilai	Bawaan	Komentar	Ekstra	Tindakan
<input type="checkbox"/> 1	idProduk 🔑	varchar(255)	utf8mb4_general_ci		Tidak	Tidak ada			Ubah Hapus Lainnya
<input type="checkbox"/> 2	namaProduk	varchar(255)	utf8mb4_general_ci		Tidak	Tidak ada			Ubah Hapus Lainnya
<input type="checkbox"/> 3	harga	double			Tidak	Tidak ada			Ubah Hapus Lainnya
<input type="checkbox"/> 4	stock	int(11)			Tidak	Tidak ada			Ubah Hapus Lainnya
<input type="checkbox"/> 5	merekProduk	varchar(255)	utf8mb4_general_ci		Tidak	Tidak ada			Ubah Hapus Lainnya
<input type="checkbox"/> 6	Kondisi	varchar(50)	utf8mb4_general_ci		Tidak	Tidak ada			Ubah Hapus Lainnya

Tabel Komputer

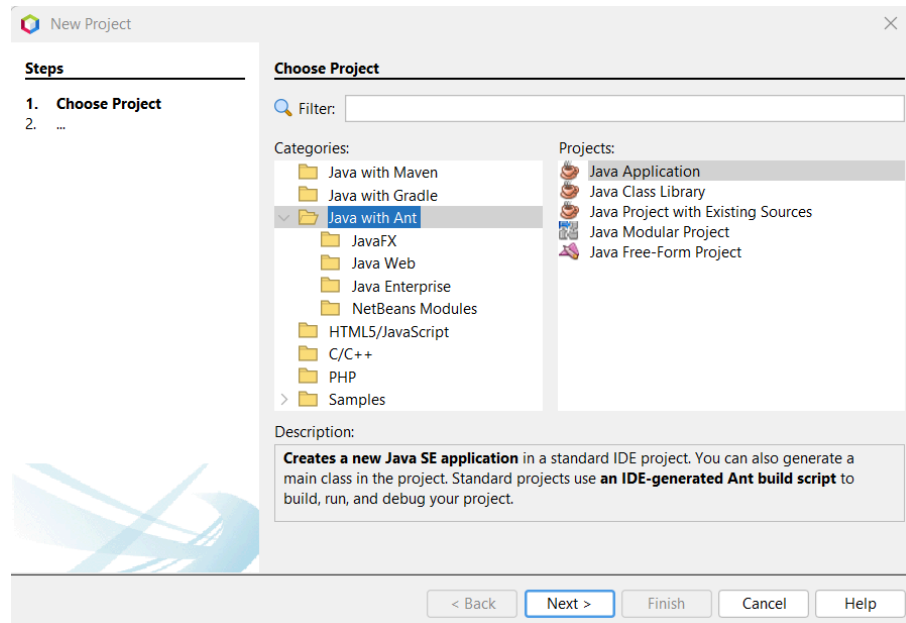
#	Nama	Jenis	Penyortiran	Atribut	Tak Ternilai	Bawaan	Komentar	Ekstra	Tindakan
<input type="checkbox"/> 1	orderId 🔑	int(11)			Tidak	Tidak ada		AUTO_INCREMENT	Ubah Hapus Lainnya
<input type="checkbox"/> 2	username 🔑	varchar(255)	utf8mb4_general_ci		Tidak	Tidak ada			Ubah Hapus Lainnya
<input type="checkbox"/> 3	idBaju 🔑	varchar(255)	utf8mb4_general_ci		Tidak	Tidak ada			Ubah Hapus Lainnya
<input type="checkbox"/> 4	orderDate	timestamp			Tidak	current_timestamp()			Ubah Hapus Lainnya

Tabel Orders

#	Nama	Jenis	Penyortiran	Atribut	Tak Ternilai	Bawaan	Komentar	Ekstra	Tindakan
<input type="checkbox"/> 1	id 🔑	int(11)			Tidak	Tidak ada		AUTO_INCREMENT	Ubah Hapus Lainnya
<input type="checkbox"/> 2	username 🔑	varchar(11)	utf8mb4_general_ci		Tidak	Tidak ada			Ubah Hapus Lainnya
<input type="checkbox"/> 3	password	varchar(11)	utf8mb4_general_ci		Tidak	Tidak ada			Ubah Hapus Lainnya
<input type="checkbox"/> 4	isAdmin	tinyint(1)			Tidak	Tidak ada			Ubah Hapus Lainnya

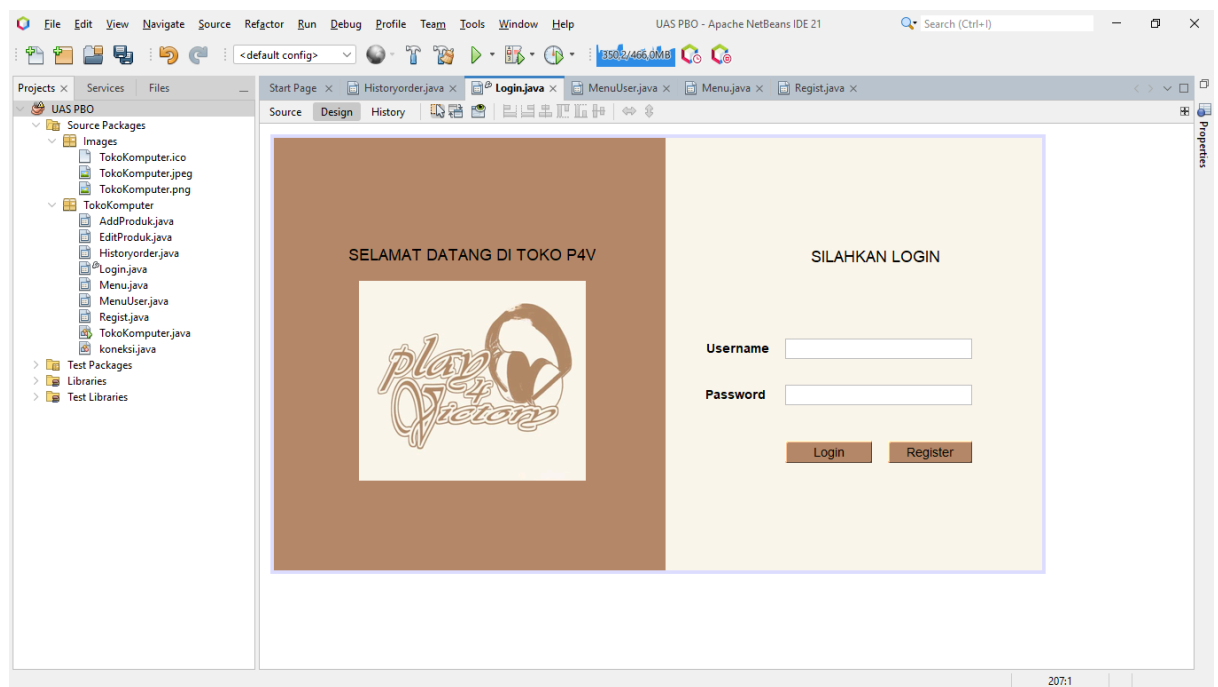
Tabel Akun

2. Membuat project baru pada Netbeans dengan memilih package dan jenis project, disini menggunakan Java Swing



Membuat New Project di Netbeans

3. Lalu buatlah *design* dengan menggunakan tools-tools yang tersedia



4. Buatlah package dengan nama 'TokoKomputer' lalu buat file koneksi dengan nama 'koneksi' untuk menghubungkan database dengan program dengan code seperti di bawah:

```
/*
```

* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license

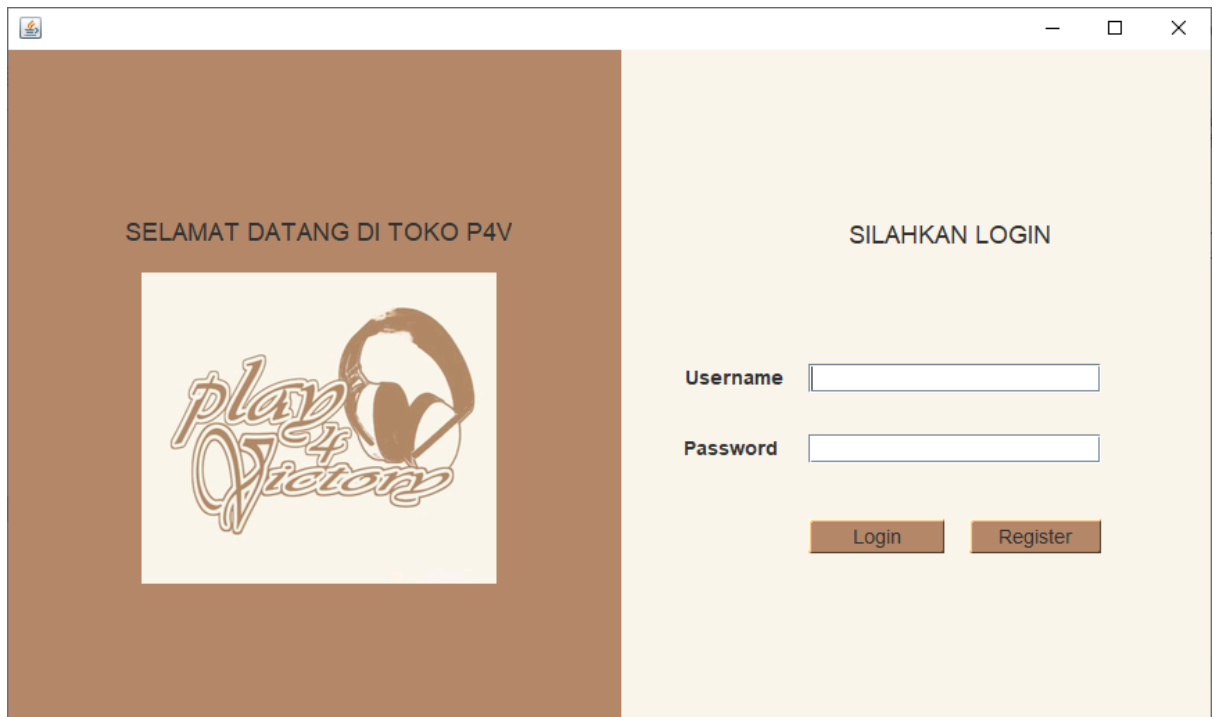
* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit this template

```
*/  
package TokoKomputer;  
  
public class TokoKomputer {  
  
    public static void main(String[] args) {  
        // TODO code application logic here  
        java.awt.EventQueue.invokeLater(new Runnable() {  
            public void run() {  
                new Login().setVisible(true);  
            }  
        });  
    }  
  
}
```

5. Lalu buat design interface masing masing menu

a. Menu Login

- Design



- Source Code

```
/*
 * Click
 nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
 change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to
 edit this template
 */
package TokoKomputer;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JOptionPane;

public class Login extends javax.swing.JFrame {

    public ResultSet rs;
    public static String IDU;
```

```

public Login() {
    initComponents();
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is
always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    list1 = new java.awt.List();
    jPanel1 = new javax.swing.JPanel();
    txtusername = new javax.swing.JTextField();
    txtpassword = new javax.swing.JPasswordField();
    btnlogin = new javax.swing.JButton();
    btnregist = new javax.swing.JButton();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    panel1 = new java.awt.Panel();
    label1 = new java.awt.Label();
    textArea1 = new java.awt.TextArea();
    label2 = new java.awt.Label();
    jLabel1 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE
);

    jPanel1.setBackground(new java.awt.Color(252, 248, 237));

    txtusername.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
    txtusername.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtusernameActionPerformed(evt);
        }
    });

    txtpassword.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
    txtpassword.addActionListener(new java.awt.event.ActionListener() {

```

```

        public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtpasswordActionPerformed(evt);
        }
    });

    btnlogin.setBackground(new java.awt.Color(180, 139, 105));
    btnlogin.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
    btnlogin.setText("Login");
    btnlogin.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISE
D));
    btnlogin.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnloginActionPerformed(evt);
        }
    });

    btnregist.setBackground(new java.awt.Color(180, 139, 105));
    btnregist.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
    btnregist.setText("Register");
    btnregist.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISE
D));
    btnregist.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnregistActionPerformed(evt);
        }
    });

    jLabel3.setFont(new java.awt.Font("Poppins", 1, 14)); // NOI18N
    jLabel3.setText("Username");

    jLabel4.setFont(new java.awt.Font("Poppins", 1, 14)); // NOI18N
    jLabel4.setText("Password");

    panel1.setBackground(new java.awt.Color(180, 139, 105));

    label1.setText("label1");

    label2.setText("label2");

    jLabel1.setFont(new java.awt.Font("Poppins ExtraBold", 0, 18)); //
NOI18N
    jLabel1.setText("SELAMAT DATANG DI TOKO P4V");

    jLabel6.setFont(new java.awt.Font("Poppins", 1, 14)); // NOI18N
    jLabel6.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Images/TokoKomputer.png"
))); // NOI18N

```

```

        javax.swing.GroupLayout panel1Layout = new
javax.swing.GroupLayout(panel1);
        panel1.setLayout(panel1Layout);
        panel1Layout.setHorizontalGroup(

panel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(panel1Layout.createSequentialGroup()
                .addGap(84, Short.MAX_VALUE)

.addGroup(panel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(panel1Layout.createSequentialGroup()
                        .addGap(79, 79, 79)
                        .addGroup(panel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                            .addComponent(jLabel6)
                            .addGap(90, 90, 90)))
                    .addGroup(panel1Layout.createSequentialGroup()
                        .addComponent(jLabel1)
                        .addGap(119, 119, 119)
                        .addComponent(jLabel6)
                        .addGap(18, 18, 18))
                .addContainerGap())
        );
        panel1Layout.setVerticalGroup(

panel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(panel1Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(jLabel1)
                .addGap(18, 18, 18)
                .addComponent(jLabel6,
javax.swing.GroupLayout.PREFERRED_SIZE, 225,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(Short.MAX_VALUE))
        );

jLabel2.setFont(new java.awt.Font("Poppins ExtraBold", 0, 18)); //
NOI18N
jLabel2.setText("SILAHKAN LOGIN");

        javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(

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

```



```

jPanel1Layout.createSequentialGroup()
    .addComponent(panel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
    .addComponent(jLabel3)
    .addGap(18, 18, 18))
    .addGroup(jPanel1Layout.createSequentialGroup()
    .addComponent(jLabel4)
    .addGap(22, 22, 22)))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING, false)
    .addComponent(txtpassword,
javax.swing.GroupLayout.PREFERRED_SIZE, 211,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(txtusername,
javax.swing.GroupLayout.PREFERRED_SIZE, 211,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGroup(jPanel1Layout.createSequentialGroup()
    .addComponent(btnlogin,
javax.swing.GroupLayout.PREFERRED_SIZE, 98,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(18, 18, 18)
    .addComponent(btnregist,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
    .addGap(79, 79, 79))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
    .addComponent(jLabel2)
    .addGap(115, 115, 115))))
);
jPanel1Layout.setVerticalGroup(

```

```

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addContainerGap(121, Short.MAX_VALUE)
        .addComponent(jLabel2)
        .addGap(76, 76, 76)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel3,
            javax.swing.GroupLayout.PREFERRED_SIZE, 31,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(txtusername,
            javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE,
            javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(26, 26, 26)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel4)
        .addComponent(txtpassword,
            javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE,
            javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(40, 40, 40)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(btnlogin)
        .addComponent(btnregist))
        .addGap(121, 121, 121))
        .addComponent(panel1, javax.swing.GroupLayout.DEFAULT_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

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

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1,
            javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE,
            javax.swing.GroupLayout.PREFERRED_SIZE)
    );
    layout.setVerticalGroup(

```

```

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jPanel1,
            javax.swing.GroupLayout.PREFERRED_SIZE,
            javax.swing.GroupLayout.DEFAULT_SIZE,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, Short.MAX_VALUE))
    );

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

private void btnregistActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Regist regist = new Regist();
    regist.setVisible(true);
    dispose();
}

private void btnloginActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String usn;
    char[] pw;

    usn = txtusername.getText();
    pw = txtpassword.getPassword();

    try {
        Connection conn = koneksi.getConnection();
        String sql = "SELECT * FROM akun WHERE username = ? AND
password = ? LIMIT 1";
        PreparedStatement stmt = conn.prepareStatement(sql);
        stmt.setString(1, usn);
        stmt.setString(2, new String(pw));

        rs = stmt.executeQuery();
        if (rs.next()) {
            IDU = usn;
            JOptionPane.showMessageDialog(this, "Selamat Datang " +
usn.toUpperCase() + " !", "SQL Information",
JOptionPane.INFORMATION_MESSAGE);
            if(rs.getBoolean("isAdmin") == true){
                Menu menu = new Menu();
                menu.setVisible(true);
                dispose();
                rs.close();
                stmt.close();
            } else {
                MenuUser MU = new MenuUser();

```

```

        MU.setVisible(true);
        dispose();
    }
}
} catch (SQLException e) {
    JOptionPane.showMessageDialog(this, "Error: " + e.getMessage(),
"SQL Error", JOptionPane.ERROR_MESSAGE);
}
}

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton btnlogin;
private javax.swing.JButton btnregist;
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 java.awt.Label label1;
private java.awt.Label label2;
private java.awt.List list1;
private java.awt.Panel panel1;
private java.awt.TextArea textArea1;
private javax.swing.JPasswordField txtpassword;
private javax.swing.JTextField txtusername;
// End of variables declaration
}

```

b. Menu Registrasi

- Design

SILAHKAN DAFTAR AKUN

Username

Password

Konfirmasi Password

Kembali Register

- Source Code

```
/*
 * Click
 nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
 change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GuiForms/JFrame.java
 to edit this template
 */
package TokoKomputer;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Arrays;
import javax.swing.JOptionPane;

public class Regist extends javax.swing.JFrame {

    private void cls() {
        txtusername.setText("");
        txtpassword.setText("");
        txtkpassword.setText("");
    }
}
```

```

public Regist() {
    initComponents();
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is
always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    txtusername = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    txtpassword = new javax.swing.JPasswordField();
    jLabel3 = new javax.swing.JLabel();
    txtkpassword = new javax.swing.JPasswordField();
    btnregister = new javax.swing.JButton();
    btnback = new javax.swing.JButton();
    jLabel4 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jPanel1.setBackground(new java.awt.Color(249, 245, 234));

    jLabel1.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
    jLabel1.setText("Username");

    txtusername.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
    txtusername.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtusernameActionPerformed(evt);
        }
    });

    jLabel2.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
    jLabel2.setText("Password");

    txtpassword.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
    txtpassword.addActionListener(new java.awt.event.ActionListener() {

```

```

        public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtpasswordActionPerformed(evt);
        }
    });

    jLabel3.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
    jLabel3.setText("Konfirmasi Password");

    txtkpassword.setFont(new java.awt.Font("Times New Roman", 0, 14));
// NOI18N

    btnregister.setBackground(new java.awt.Color(202, 162, 127));
    btnregister.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
    btnregister.setText("Register");
    btnregister.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnregisterActionPerformed(evt);
        }
    });

    btnback.setBackground(new java.awt.Color(202, 162, 127));
    btnback.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
    btnback.setText("Kembali");
    btnback.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnbackActionPerformed(evt);
        }
    });

    jLabel4.setFont(new java.awt.Font("Poppins ExtraBold", 0, 18)); //
NOI18N
    jLabel4.setText("SILAHKAN DAFTAR AKUN");

    javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.TRAILING)
        .addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

```

```

        .addComponent(jLabel4))
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(79, 79, 79)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
            .addComponent(jLabel2)
            .addComponent(jLabel3)
            .addComponent(jLabel1))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED
)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.TRAILING)
            .addComponent(txtkpassword)
            .addGroup(jPanel1Layout.createSequentialGroup())
            .addComponent(btnback)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED
, 45, Short.MAX_VALUE)
            .addComponent(btnregister))
            .addComponent(txtpassword)
            .addComponent(txtusername))))
        .addGap(221, 221, 221))
    );
    jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
    .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(31, 31, 31)
        .addComponent(jLabel4)
        .addGap(63, 63, 63)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
        .addComponent(txtusername,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel1))
        .addGap(18, 18, 18)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
        .addComponent(txtpassword,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,

```



```

javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel2))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELAT
ED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
    .addComponent(txtkpassword,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel3))
    .addGap(43, 43, 43)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
    .addComponent(btnregister)
    .addComponent(btnback))
    .addContainerGap(122, Short.MAX_VALUE))
);

    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(jPanel1,
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)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, Short.MAX_VALUE))
    );

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

```

```

private void btnbackActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Login login = new Login();
    login.setVisible(true);
    dispose();
}

private void btnregisterActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String usn;
    char[] pw, kpw;

    usn = txtusername.getText();
    pw = txtpassword.getPassword();
    kpw = txtkpassword.getPassword();

    if (!usn.isEmpty() && pw.length != 0 && kpw.length != 0) {

        if (Arrays.equals(pw, kpw)) {

            try {
                Connection conn = koneksi.getConnection();
                String sql = "INSERT INTO akun VALUES (NULL, ?, ?, ?)";
                PreparedStatement stmt = conn.prepareStatement(sql);
                stmt.setString(1, usn);
                stmt.setString(2, new String(pw));
                stmt.setBoolean(3, false);

                int rowAffected = stmt.executeUpdate();
                if (rowAffected > 0) {
                    cls();
                    JOptionPane.showMessageDialog(this, "Berhasil Melakukan
Regist!", "SQL Information", JOptionPane.INFORMATION_MESSAGE);
                    Login login = new Login();
                    stmt.close();
                    login.setVisible(true);
                    dispose();
                }
            } catch (SQLException e) {
                JOptionPane.showMessageDialog(this, "Error: " +
e.getMessage(), "SQL Error", JOptionPane.ERROR_MESSAGE);
            }

        } else {
            JOptionPane.showMessageDialog(this, "Password dan Konfirmasi
Password Tidak Sama!", "Warning", JOptionPane.WARNING_MESSAGE);
        }

    } else {

```

```

        JOptionPane.showMessageDialog(this, "Harap Inputkan Semua
Data!", "Warning", JOptionPane.WARNING_MESSAGE);
    }
}

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton btnback;
private javax.swing.JButton btnregister;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JPanel jPanel1;
private javax.swing.JPasswordField txtkpassword;
private javax.swing.JPasswordField txtpassword;
private javax.swing.JTextField txtusername;
// End of variables declaration
}

```

c. Dashboard Admin

- Design

The screenshot shows a web application interface for an admin dashboard. At the top, there is a navigation bar with two buttons: "Manajemen Data" and "Logout". Below this is a search bar labeled "CARI BARANG" with a text input field. The main content area contains a table with the following data:

ID Produk	Nama	Harga	Stok	Merek	Kondisi
a1	Ryzen 3 3200g	1300000	5	AMD	Baru
a2	Vga RX 580	1000000	3	Nitro Amd	Bekas
a3	Cpu i3 12100f	1500000	5	Intel	Baru
a4	Monitor 144Hz	1800000	6	Viewsonic	Baru
a5	Vga Gtx 1660 Ti	2100000	3	Nvidia Asrock	Baru

Awal masuk Menu admin

- Source Code

```
/*
 * Click
 nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
 change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GuiForms/JFrame.java
 to edit this template
 */
package TokoKomputer;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.JOptionPane;
import javax.swing.ListSelectionModel;
```

```

import javax.swing.table.DefaultTableModel;

public class Menu extends javax.swing.JFrame {

    private Connection con;
    private Statement stat;
    private ResultSet res;

    public static String ID;

    public Menu() {
        initComponents();
        koneksi();

        tabel();
    }

    public void koneksi() {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            con =
DriverManager.getConnection("jdbc:mysql://localhost/TokoKomputer",
"root", "");
            stat = con.createStatement();
        } catch (Exception e) {
            JOptionPane.showMessageDialog(null, e);
        }
    }

    private void tabel() {
        koneksi();
        DefaultTableModel tb = (DefaultTableModel) table.getModel();
        table.setSelectionMode(ListSelectionModel.SINGLE_SELECTION);
        tb.setRowCount(0);

        try {
            String sql = "select * from komputer";
            res = stat.executeQuery(sql);
            while (res.next()) {
                tb.addRow(new Object[] {
                    res.getString("idProduk"),
                    res.getString("namaProduk"),
                    res.getInt("harga"),
                    res.getInt("stock"),
                    res.getString("merekProduk"),
                    res.getString("kondisi")
                });
            }
        }
    }
}

```

```

    }
    res.close();
    stat.close();
} catch (SQLException e) {
    JOptionPane.showMessageDialog(null, "Error: " + e);
}
}

private void tabel(String search) {
    koneksi();
    DefaultTableModel tb = (DefaultTableModel) table.getModel();
    table.setSelectionMode(ListSelectionModel.SINGLE_SELECTION);
    tb.setRowCount(0);

    try {
        String sql = "select * from komputer WHERE namaProduk LIKE '%"
+ search + "%' OR merekProduk LIKE '%" + search + "%'";
        res = stat.executeQuery(sql);
        while (res.next()) {
            tb.addRow(new Object[] {
                res.getString("idProduk"),
                res.getString("namaProduk"),
                res.getInt("harga"),
                res.getInt("stock"),
                res.getString("merekProduk"),
                res.getString("Kondisi")
            });
        }
        res.close();
        stat.close();
    } catch (SQLException e) {
        JOptionPane.showMessageDialog(null, "Error: " + e);
    }
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is
always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jScrollPane1 = new javax.swing.JScrollPane();
    table = new javax.swing.JTable();
    txtsearch = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();

```

```

MenuBarAdmin = new javax.swing.JMenuBar();
jMenu1 = new javax.swing.JMenu();
jMenu3 = new javax.swing.JMenu();
jMenu4 = new javax.swing.JMenu();
jMenu5 = new javax.swing.JMenu();
jMenu2 = new javax.swing.JMenu();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE
);

setBackground(new java.awt.Color(195, 155, 120));

table.setBackground(new java.awt.Color(252, 249, 240));
table.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
table.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null}
    },
    new String [] {
        "ID Produk", "Nama", "Harga", "Stok", "Merek", "Kondisi"
    }
));
table.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        tableMouseClicked(evt);
    }
});
jScrollPane1.setViewportView(table);

txtsearch.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
txtsearch.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtsearchActionPerformed(evt);
    }
});
txtsearch.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyReleased(java.awt.event.KeyEvent evt) {
        txtsearchKeyReleased(evt);
    }
});

jLabel2.setFont(new java.awt.Font("Poppins", 0, 12)); // NOI18N
jLabel2.setText("CARI BARANG");

```

```

MenuBarAdmin.setBackground(new java.awt.Color(249, 245, 234));
MenuBarAdmin.setForeground(new java.awt.Color(195, 155, 120));
MenuBarAdmin.setToolTipText("");

jMenu1.setBackground(new java.awt.Color(195, 155, 120));
jMenu1.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISE
D));
jMenu1.setText("Manajemen Data");
jMenu1.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N

jMenu3.setText("Tambah Data");
jMenu3.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jMenu3MouseClicked(evt);
    }
});
jMenu1.add(jMenu3);

jMenu4.setText("Ubah Data");
jMenu4.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jMenu4MouseClicked(evt);
    }
});
jMenu1.add(jMenu4);

jMenu5.setText("Hapus Data");
jMenu5.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jMenu5MouseClicked(evt);
    }
});
jMenu1.add(jMenu5);

MenuBarAdmin.add(jMenu1);

jMenu2.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISE
D));
jMenu2.setText("Logout");
jMenu2.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
jMenu2.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jMenu2MouseClicked(evt);
    }
});

```



```

MenuBarAdmin.add(jMenu2);

setJMenuBar(MenuBarAdmin);

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 678, Short.MAX_VALUE)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
            .addGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
            .addComponent(jLabel2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELAT
ED)
            .addComponent(txtsearch,
javax.swing.GroupLayout.PREFERRED_SIZE, 195,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap())
        );
    layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
            .addGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
            .addComponent(txtsearch,
javax.swing.GroupLayout.PREFERRED_SIZE, 23,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel2))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED
)
            .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 351,
javax.swing.GroupLayout.PREFERRED_SIZE))
        );

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

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

```

```

// TODO add your handling code here:
String cari = txtsearch.getText();
tabel(cari);
}

private void jMenuItem3MouseClicked(java.awt.event.MouseEvent evt) {
// TODO add your handling code here:
AddProduk AP = new AddProduk();
AP.setVisible(true);
dispose();
}

private void jTableMouseClicked(java.awt.event.MouseEvent evt) {
// TODO add your handling code here:
int baris = table.getSelectedRow();
ID = (String) table.getValueAt(baris, 0);
System.out.println(ID);
}

private void jMenuItem5MouseClicked(java.awt.event.MouseEvent evt) {
// TODO add your handling code here:
if (!ID.isEmpty()) {
int response = JOptionPane.showConfirmDialog(this, "Apakah Ingin
Menghapus Produk Dengan ID " + ID, "Konfirmasi",
JOptionPane.YES_NO_OPTION);

switch (response) {
case JOptionPane.YES_OPTION:
try {
Connection conn = koneksi.getConnection();
String sql = "DELETE FROM komputer WHERE idProduk =
?";

PreparedStatement stmt = conn.prepareStatement(sql);
stmt.setString(1, ID);

int rowAffected = stmt.executeUpdate();
if (rowAffected > 0) {
ID = null;
JOptionPane.showMessageDialog(this, "Berhasil
Menghapus Produk!", "SQL Information",
JOptionPane.INFORMATION_MESSAGE);
stmt.close();
tabel();
}
} catch (SQLException e) {
JOptionPane.showMessageDialog(this, "Error: " +
e.getMessage(), "SQL Error", JOptionPane.ERROR_MESSAGE);
}
break;
}
}
}

```

```

        default:
            throw new AssertionError();
        }
    } else {
        JOptionPane.showMessageDialog(this, "Harap Pilih Data Terlebih
Dahulu!");
    }
}

private void jMenuItem4MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    EditProduk EP = new EditProduk();
    EP.setVisible(true);
    dispose();
}

private void jMenuItem2MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    Login login = new Login();
    login.setVisible(true);
    dispose();
}

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

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

// Variables declaration - do not modify
private javax.swing.JMenuBar MenuBarAdmin;
private javax.swing.JLabel jLabel2;
private javax.swing.JMenu jMenuItem1;
private javax.swing.JMenu jMenuItem2;
private javax.swing.JMenu jMenuItem3;
private javax.swing.JMenu jMenuItem4;
private javax.swing.JMenu jMenuItem5;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable table;
private javax.swing.JTextField txtsearch;
// End of variables declaration
}

```

d. Tambah Data (admin)

- Design

The screenshot shows a Java Swing window titled 'Tambah Data (admin)'. The window has a yellow background and a title bar with standard Windows controls (minimize, maximize, close). The main content area contains several input fields and buttons. On the left side, there are three input fields labeled 'ID Produk', 'Nama Produk', and 'Harga'. On the right side, there are two input fields labeled 'Stok' and 'Merek'. Below the 'Merek' field, there is a section titled 'Kondisi' with two radio buttons labeled 'Baru' and 'Bekas'. At the bottom of the window, there are two buttons: 'Kembali' and 'Tambah'.

- Source Code

```
/*
 * Click
 nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
 change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
 to edit this template
 */
package TokoKomputer;

import java.awt.event.KeyEvent;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.swing.JOptionPane;

public class AddProduk extends javax.swing.JFrame {

    private void cls() {
        txtnama.setText("");
        txtID.setText("");
        txtharga.setText("");
        txtmerk.setText("");
        txtstok.setText("");
        rblaki.setSelected(false);
    }
}
```

```

        rbperempuan.setSelected(false);
    }

    public AddProduk() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is
always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        buttonGroup1 = new javax.swing.ButtonGroup();
        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        txtID = new javax.swing.JTextField();
        txtnama = new javax.swing.JTextField();
        txtharga = new javax.swing.JTextField();
        txtstok = new javax.swing.JTextField();
        txtmerk = new javax.swing.JTextField();
        btnTambah = new javax.swing.JButton();
        btnback = new javax.swing.JButton();
        jPanel3 = new javax.swing.JPanel();
        rblaki = new javax.swing.JRadioButton();
        rbperempuan = new javax.swing.JRadioButton();
        jLabel6 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE
    );

        jPanel1.setBackground(new java.awt.Color(252, 249, 240));
        jPanel1.setMaximumSize(new java.awt.Dimension(609, 275));
        jPanel1.setPreferredSize(new java.awt.Dimension(609, 275));

        jLabel1.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
        jLabel1.setText("ID Produk");

        jLabel2.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
        jLabel2.setText("Nama Produk");

```

```

jLabel3.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
jLabel3.setText("Harga");

jLabel4.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
jLabel4.setText("Stok");

jLabel5.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
jLabel5.setText("Merek");

txtID.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
txtID.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtIDActionPerformed(evt);
    }
});

txtnama.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
txtnama.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtnamaActionPerformed(evt);
    }
});

txtharga.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
txtharga.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyTyped(java.awt.event.KeyEvent evt) {
        txthargaKeyTyped(evt);
    }
});

txtstok.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
txtstok.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyTyped(java.awt.event.KeyEvent evt) {
        txtstokKeyTyped(evt);
    }
});

txtmerk.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
txtmerk.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyTyped(java.awt.event.KeyEvent evt) {
        txtmerkKeyTyped(evt);
    }
});

```

```

    btntambah.setBackground(new java.awt.Color(198, 158, 123));
    btntambah.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
    btntambah.setText("Tambah");
    btntambah.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btntambahActionPerformed(evt);
        }
    });

    btnback.setBackground(new java.awt.Color(198, 158, 123));
    btnback.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
    btnback.setText("Kembali");
    btnback.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnbackActionPerformed(evt);
        }
    });

    jPanel3.setBackground(new java.awt.Color(198, 158, 123));
    jPanel3.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));
    jPanel3.setForeground(new java.awt.Color(204, 255, 255));

    buttonGroup1.add(rblaki);
    rblaki.setFont(new java.awt.Font("Nohemi", 0, 14)); // NOI18N
    rblaki.setText("Baru");

    buttonGroup1.add(rbperempuan);
    rbperempuan.setFont(new java.awt.Font("Nohemi", 0, 14)); // NOI18N
    rbperempuan.setText("Bekas");

    jLabel6.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
    jLabel6.setText("Kondisi");

    javax.swing.GroupLayout jPanel3Layout = new
    javax.swing.GroupLayout(jPanel3);
    jPanel3.setLayout(jPanel3Layout);
    jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel6)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addGroup(buttonGroup1.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(rblaki)
                    .addComponent(rbperempuan))
                .addGap(10, 10, 10)
                .addComponent(btnback)
                .addGap(10, 10, 10)
                .addComponent(btntambah)))
        .addContainerGap(10, Short.MAX_VALUE))
    );

```

```

        .addComponent(rblaki,
javax.swing.GroupLayout.PREFERRED_SIZE, 98,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED
)

        .addComponent(rbperempuan))
        .addComponent(jLabel6))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
    JPanel3Layout.setVerticalGroup(

JPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
JPanel3Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel6)

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

.addGroup(JPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
    .addComponent(rblaki)
    .addComponent(rbperempuan))
    .addContainerGap()
);

    javax.swing.GroupLayout JPanel1Layout = new
javax.swing.GroupLayout(JPanel1);
    JPanel1.setLayout(JPanel1Layout);
    JPanel1Layout.setHorizontalGroup(

JPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
JPanel1Layout.createSequentialGroup()
            .addGap(64, 64, 64)

.addGroup(JPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.TRAILING)
    .addComponent(btnback)
    .addGroup(JPanel1Layout.createSequentialGroup()

.addGroup(JPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
    .addComponent(jLabel1)

```



```

        .addComponent(jLabel2)
        .addComponent(jLabel3))
        .addGap(38, 38, 38)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING, false)
        .addComponent(txtID,
javax.swing.GroupLayout.DEFAULT_SIZE, 106, Short.MAX_VALUE)
        .addComponent(txtharga)
        .addComponent(txtnama))))
        .addGap(53, 53, 53)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
        .addComponent(jLabel4)
        .addComponent(jLabel5))
        .addGap(49, 49, 49)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
        .addComponent(txtmerk,
javax.swing.GroupLayout.PREFERRED_SIZE, 106,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(txtstok,
javax.swing.GroupLayout.PREFERRED_SIZE, 106,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addComponent(btntambah)
        .addComponent(jPanel3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(69, Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(24, 24, 24)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
        .addComponent(txtID,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE,

```

```

javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
    .addComponent(txtstok,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel1)
    .addComponent(jLabel4)))
.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
    .addComponent(jLabel2)
    .addComponent(txtnama,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(txtmerk,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel5))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(24, 24, 24)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
    .addComponent(jLabel3)
    .addComponent(txtharga,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGroup(jPanel1Layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELAT
ED)
    .addComponent(jPanel3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))

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

```

```

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
    .addComponent(btnback)
    .addComponent(btntambah))
.addGap(34, 34, 34))
);

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
);
layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

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

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

String nama, ID, hargaString, stokString, merk,jk = null;
int harga,stok;

nama = txtnama.getText();
ID = txtID.getText();
stokString = txtstok.getText();
stok = Integer.parseInt(stokString);
hargaString = txtharga.getText();
harga = Integer.parseInt(hargaString);
merk = txtmerk.getText();
if(rblaki.isSelected() == true){
    jk = rblaki.getText();
} else if(rbperempuan.isSelected() == true){
    jk = rbperempuan.getText();
}

try {
    Connection conn = koneksi.getConnection();

```

```

String sql = "INSERT INTO komputer VALUES (?, ?, ?, ?, ?, ?)";
PreparedStatement stmt = conn.prepareStatement(sql);
stmt.setString(1, ID);
stmt.setString(2, nama);
stmt.setInt(3, harga);
stmt.setInt(4, stok);
stmt.setString(5, merk);
stmt.setString(6, jk);

int rowAffected = stmt.executeUpdate();
if (rowAffected > 0) {
    cls();
    JOptionPane.showMessageDialog(this, "Berhasil Menambahkan
Produk!", "SQL Information", JOptionPane.INFORMATION_MESSAGE);
    Menu menu = new Menu();
    stmt.close();
    menu.setVisible(true);
    dispose();
}
} catch (SQLException e) {
    JOptionPane.showMessageDialog(this, "Error: " + e.getMessage(),
"SQL Error", JOptionPane.ERROR_MESSAGE);
}
}

private void btnbackActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Menu menu = new Menu();
    menu.setVisible(true);
    dispose();
}

private void txthargaKeyTyped(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
    char karakter = evt.getKeyChar();
    if(!(((karakter >= '0') && (karakter <= '9') || (karakter ==
KeyEvent.VK_BACK_SPACE) || (karakter == KeyEvent.VK_DELETE)))){
        getToolkit().beep();
        evt.consume();
    }
}

private void txtstokKeyTyped(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
    char karakter = evt.getKeyChar();
    if(!(((karakter >= '0') && (karakter <= '9') || (karakter ==
KeyEvent.VK_BACK_SPACE) || (karakter == KeyEvent.VK_DELETE)))){
        getToolkit().beep();
        evt.consume();
    }
}

```

```

    }
}

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton btnback;
private javax.swing.JButton btntambah;
private javax.swing.ButtonGroup buttonGroup1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel3;
private javax.swing.JRadioButton rblaki;
private javax.swing.JRadioButton rbperempuan;
private javax.swing.JTextField txtID;
private javax.swing.JTextField txtharga;
private javax.swing.JTextField txtmerk;
private javax.swing.JTextField txtnama;
private javax.swing.JTextField txtstok;
// End of variables declaration
}

```

e. Edit Data (admin)

- Design

The screenshot shows a Java Swing window titled "Edit Data (admin)". The window contains the following elements:

- Input Fields:**
 - ID Produk
 - Stok
 - Nama
 - Merek
 - Harga
- Kondisi Section:** A brown-bordered box containing two radio buttons labeled "Baru" and "Bekas".
- Action Buttons:** Two buttons at the bottom labeled "Kembali" and "Ubah".

- Source Code

```
/*
 * Click
 nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
 change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
 to edit this template
 */
package TokoKomputer;

import TokoKomputer.Menu;
import java.awt.event.KeyEvent;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.JOptionPane;

public class EditProduk extends javax.swing.JFrame {

    private Connection con;
    private Statement stat;
```

```

private ResultSet res;

private String IDP = Menu.ID;

private void cls() {
    txtnama.setText("");
    txtID.setText("");
    txtharga.setText("");
    txtmerk.setText("");
    txtstok.setText("");
    rblaki.setSelected(false);
    rbperempuan.setSelected(false);
}

public EditProduk() {
    initComponents();
    loadInput();
}

private void loadInput(){
    try {
        con =
DriverManager.getConnection("jdbc:mysql://localhost/TokoKomputer",
"root", "");
        String sql = "SELECT namaProduk, harga, stock, merekProduk,
kondisi FROM komputer WHERE idProduk = '" + IDP + "'";
        stat = con.createStatement();
        res = stat.executeQuery(sql);

        if(res.next()){
            this.txtnama.setText(res.getString("namaProduk"));
            this.txtID.setText(IDP);
            this.txtID.setEnabled(false);
            this.txtmerk.setText(res.getString("merekProduk"));
            this.txtharga.setText(String.valueOf(res.getInt("harga")));
            this.txtstok.setText(String.valueOf(res.getInt("stock")));
            if(res.getString("Kondisi").equals(rblaki.getText())){
                rblaki.setSelected(true);
            } else {
                rbperempuan.setSelected(true);
            }
        }
        res.close();
        stat.close();
    } catch(SQLException e){
        JOptionPane.showMessageDialog(this, "Error: " + e.getMessage(),
"SQL Error", JOptionPane.ERROR_MESSAGE);
    }
}

```

```

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is
always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    buttonGroup1 = new javax.swing.ButtonGroup();
    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    txtID = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    txtnama = new javax.swing.JTextField();
    jLabel3 = new javax.swing.JLabel();
    txtharga = new javax.swing.JTextField();
    jLabel4 = new javax.swing.JLabel();
    txtstok = new javax.swing.JTextField();
    jLabel5 = new javax.swing.JLabel();
    txtmerk = new javax.swing.JTextField();
    btnTambah = new javax.swing.JButton();
    btnback = new javax.swing.JButton();
    jPanel2 = new javax.swing.JPanel();
    jLabel6 = new javax.swing.JLabel();
    rblaki = new javax.swing.JRadioButton();
    rbperempuan = new javax.swing.JRadioButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE
);

    jPanel1.setBackground(new java.awt.Color(249, 245, 234));

    jLabel1.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
    jLabel1.setText("ID Produk");

    txtID.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
    txtID.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtIDActionPerformed(evt);
        }
    });

    jLabel2.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
    jLabel2.setText("Nama");

```



```

        txtnama.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        txtnama.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                txtnamaActionPerformed(evt);
            }
        });

        jLabel3.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
        jLabel3.setText("Harga ");

        txtharga.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        txtharga.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyTyped(java.awt.event.KeyEvent evt) {
                txthargaKeyTyped(evt);
            }
        });

        jLabel4.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
        jLabel4.setText("Stok");

        txtstok.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        txtstok.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyTyped(java.awt.event.KeyEvent evt) {
                txtstokKeyTyped(evt);
            }
        });

        jLabel5.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
        jLabel5.setText("Merek");

        txtmerk.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        txtmerk.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyTyped(java.awt.event.KeyEvent evt) {
                txtmerkKeyTyped(evt);
            }
        });

        btntambah.setBackground(new java.awt.Color(198, 158, 123));
        btntambah.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
        btntambah.setText("Ubah");
        btntambah.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                btntambahActionPerformed(evt);
            }
        });

```

```

});

btnback.setBackground(new java.awt.Color(198, 158, 123));
btnback.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
btnback.setText("Kembali");
btnback.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnbackActionPerformed(evt);
    }
});

jPanel2.setBackground(new java.awt.Color(198, 158, 123));
jPanel2.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISE
D));
jPanel2.setForeground(new java.awt.Color(204, 255, 255));

jLabel6.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
jLabel6.setText("Kondisi");

buttonGroup1.add(rblaki);
rblaki.setFont(new java.awt.Font("Nohemi", 0, 14)); // NOI18N
rblaki.setText("Baru");
rblaki.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        rblakiActionPerformed(evt);
    }
});

buttonGroup1.add(rbperempuan);
rbperempuan.setFont(new java.awt.Font("Nohemi", 0, 14)); // NOI18N
rbperempuan.setText("Bekas");

javax.swing.GroupLayout jPanel2Layout = new
javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addComponent(jLabel6)
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
            .addComponent(rblaki,
javax.swing.GroupLayout.PREFERRED_SIZE, 98,

```

```

javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(rbperempuan)))
    .addContainerGap(15, Short.MAX_VALUE))
);
jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup())
    .addContainerGap()
    .addComponent(jLabel6)
    .addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(rblaki)
    .addComponent(rbperempuan))
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);

    javax.swing.GroupLayout jPanel1Layout = new
    javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup())
    .addGap(49, 49, 49)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(jPanel1Layout.createSequentialGroup())

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel2)
    .addComponent(jLabel1)
    .addComponent(jLabel3))
    .addGap(70, 70, 70)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
    .addComponent(txtharga,
    javax.swing.GroupLayout.Alignment.LEADING,
    javax.swing.GroupLayout.DEFAULT_SIZE, 106, Short.MAX_VALUE)
    .addComponent(txtnama,

```

```

javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(txtID,
javax.swing.GroupLayout.Alignment.LEADING)))
    .addComponent(btnback))
    .addGap(42, 42, 42)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
    .addComponent(jLabel5)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.TRAILING)
    .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(jLabel4)
        .addGap(48, 48, 48)
        .addComponent(txtstok,
javax.swing.GroupLayout.PREFERRED_SIZE, 106,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(txtmerk,
javax.swing.GroupLayout.PREFERRED_SIZE, 106,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(btntambah)
        .addComponent(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(61, Short.MAX_VALUE))
    );
jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
    .addGroup(jPanel1Layout.createSequentialGroup())

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(35, 35, 35)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
    .addComponent(jLabel1)
    .addComponent(txtID,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel4)))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup())

```

```

        .addContainerGap()
        .addComponent(txtstok,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
        .addComponent(txtnama,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel2)
        .addComponent(jLabel5))
        .addComponent(txtmerk,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(20, 20, 20)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
        .addComponent(jLabel3)
        .addComponent(txtharga,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGroup(jPanel1Layout.createSequentialGroup())

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELAT
ED)
        .addComponent(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(30, 30, 30)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
        .addComponent(btntambah)

```

```

        .addComponent(btnback))
        .addContainerGap(35, Short.MAX_VALUE))
    );

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
    );
    layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
    );

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

private void btnbackActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Menu menu = new Menu();
    menu.setVisible(true);
    dispose();
}

private void btntambahActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String nama, ID, hargaString, stokString, merk, kn = null;
    int harga, stok;

    nama = txtnama.getText();
    stokString = txtstok.getText();
    stok = Integer.parseInt(stokString);
    hargaString = txtharga.getText();
    harga = Integer.parseInt(hargaString);
    merk = txtmerk.getText();
    if(rblaki.isSelected() == true){
        kn = rblaki.getText();
    } else if(rbperempuan.isSelected() == true){
        kn = rbperempuan.getText();
    }
}

```

```

    }

    try {
        Connection conn = koneksi.getConnection();
        String sql = "UPDATE komputer SET namaProduk = ?, harga = ?,
stock = ?, merekProduk = ?, kondisi = ? WHERE idProduk = ?";
        PreparedStatement stmt = conn.prepareStatement(sql);
        stmt.setString(1, nama);
        stmt.setInt(2, harga);
        stmt.setInt(3, stok);
        stmt.setString(4, merk);
        stmt.setString(5, kn);
        stmt.setString(6, IDP);

        int rowAffected = stmt.executeUpdate();
        if (rowAffected > 0) {
            cls();
            JOptionPane.showMessageDialog(this, "Berhasil Mengubah Data
Produk!", "SQL Information", JOptionPane.INFORMATION_MESSAGE);
            Menu menu = new Menu();
            stmt.close();
            menu.setVisible(true);
            dispose();
        }
    } catch (SQLException e) {
        JOptionPane.showMessageDialog(this, "Error: " + e.getMessage(),
"SQL Error", JOptionPane.ERROR_MESSAGE);
    }
}

private void txthargaKeyTyped(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
    char karakter = evt.getKeyChar();
    if(!(((karakter >= '0') && (karakter <= '9') || (karakter ==
KeyEvent.VK_BACK_SPACE) || (karakter == KeyEvent.VK_DELETE)))){
        getToolkit().beep();
        evt.consume();
    }
}

private void txtstokKeyTyped(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
    char karakter = evt.getKeyChar();
    if(!(((karakter >= '0') && (karakter <= '9') || (karakter ==
KeyEvent.VK_BACK_SPACE) || (karakter == KeyEvent.VK_DELETE)))){
        getToolkit().beep();
        evt.consume();
    }
}
}

```

```

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

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton btnback;
private javax.swing.JButton btntambah;
private javax.swing.ButtonGroup buttonGroup1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JRadioButton rblaki;
private javax.swing.JRadioButton rbperempuan;
private javax.swing.JTextField txtID;
private javax.swing.JTextField txtharga;
private javax.swing.JTextField txtmerk;
private javax.swing.JTextField txtnama;
private javax.swing.JTextField txtstok;
// End of variables declaration
}

```


f. Menu User (Read Data)

- Design

ID Produk	Nama Produk	Harga	Stok	Merek	Kondisi
a1	Ryzen 3 3200g	1300000	5	AMD	Baru
a2	Vga RX 580	1000000	3	Nitro Amd	Bekas
a3	Cpu i3 12100f	1500000	5	Intel	Baru
a4	Monitor 144Hz	1800000	6	Viewsonic	Baru
a5	Vga Gtx 1660 Ti	2100000	3	Nvidia Asrock	Baru

- Source Code

```
/*
 * Click
 nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
 change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
 to edit this template
 */
package TokoKomputer;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.time.LocalDate;
import javax.swing.JOptionPane;
import javax.swing.ListSelectionModel;
import javax.swing.table.DefaultTableModel;
import static TokoKomputer.Menu.ID;

public class MenuUser extends javax.swing.JFrame {

    private Connection con;
```

```

private Statement stat;
private ResultSet res;

public static String ID;

public MenuUser() {
    initComponents();
    koneksi();
    tabel();
}

public void koneksi() {
    try {
        Class.forName("com.mysql.jdbc.Driver");
        con =
DriverManager.getConnection("jdbc:mysql://localhost/tokokomputer",
"root", "");
        stat = con.createStatement();
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null, e);
    }
}

private void tabel() {
    koneksi();
    DefaultTableModel tb = (DefaultTableModel) table.getModel();
    table.setSelectionMode(ListSelectionModel.SINGLE_SELECTION);
    tb.setRowCount(0);

    try {
        String sql = "select * from komputer";
        res = stat.executeQuery(sql);
        while (res.next()) {
            tb.addRow(new Object[] {
                res.getString("idProduk"),
                res.getString("namaProduk"),
                res.getInt("harga"),
                res.getInt("stock"),
                res.getString("merekProduk"),
                res.getString("Kondisi")
            });
        }
        res.close();
        stat.close();
    } catch (SQLException e) {
        JOptionPane.showMessageDialog(null, "Error: " + e);
    }
}

```

```

private void tabel(String search) {
    koneksi();
    DefaultTableModel tb = (DefaultTableModel) table.getModel();
    table.setSelectionMode(ListSelectionModel.SINGLE_SELECTION);
    tb.setRowCount(0);

    try {
        String sql = "select * from komputer WHERE namaProduk LIKE '%'" + search + "%' OR merekProduk LIKE '%" + search + "%'";
        res = stat.executeQuery(sql);
        while (res.next()) {
            tb.addRow(new Object[]{
                res.getString("idProduk"),
                res.getString("namaProduk"),
                res.getInt("harga"),
                res.getInt("stock"),
                res.getString("merekProduk"),
                res.getString("Kondisi")
            });
        }
        res.close();
        stat.close();
    } catch (SQLException e) {
        JOptionPane.showMessageDialog(null, "Error: " + e);
    }
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is
always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jScrollPane1 = new javax.swing.JScrollPane();
    table = new javax.swing.JTable();
    txtsearch = new javax.swing.JTextField();
    btnpesan = new javax.swing.JButton();
    jLabel2 = new javax.swing.JLabel();
    MenuBarAdmin = new javax.swing.JMenuBar();
    jMenu6 = new javax.swing.JMenu();
    jMenu2 = new javax.swing.JMenu();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

```

```

table.setBackground(new java.awt.Color(244, 236, 223));
table.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null}
    },
    new String [] {
        "ID Produk", "Nama Produk", "Harga", "Stok", "Merek",
        "Kondisi"
    }
));
table.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        tableMouseClicked(evt);
    }
});
jScrollPane1.setViewportView(table);

txtsearch.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
txtsearch.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtsearchActionPerformed(evt);
    }
});
txtsearch.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyReleased(java.awt.event.KeyEvent evt) {
        txtsearchKeyReleased(evt);
    }
});

btnpesan.setBackground(new java.awt.Color(182, 142, 107));
btnpesan.setFont(new java.awt.Font("Poppins", 0, 14)); // NOI18N
btnpesan.setText("Pesanan");
btnpesan.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnpesanActionPerformed(evt);
    }
});

jLabel2.setFont(new java.awt.Font("Poppins", 0, 12)); // NOI18N
jLabel2.setText("CARI BARANG");

MenuBarAdmin.setBackground(new java.awt.Color(249, 245, 234));

jMenu6.setBackground(new java.awt.Color(204, 255, 255));

```

```

        jMenu6.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));
        jMenu6.setText("History Order");
        jMenu6.addMouseListener(new java.awt.event.MouseAdapter() {
            public void mouseClicked(java.awt.event.MouseEvent evt) {
                jMenu6MouseClicked(evt);
            }
        });
        MenuBarAdmin.add(jMenu6);

        jMenu2.setBackground(new java.awt.Color(204, 255, 255));
        jMenu2.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));
        jMenu2.setText("Logout");
        jMenu2.addMouseListener(new java.awt.event.MouseAdapter() {
            public void mouseClicked(java.awt.event.MouseEvent evt) {
                jMenu2MouseClicked(evt);
            }
        });
        MenuBarAdmin.add(jMenu2);

        setJMenuBar(MenuBarAdmin);

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 678, Short.MAX_VALUE)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addGap()
                .addComponent(btnpesan)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(txtsearch,
javax.swing.GroupLayout.PREFERRED_SIZE, 195,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(14, 14, 14))

```

```

        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(0, 0, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(txtsearch,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel2))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED))
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(btnpesan)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 351,
javax.swing.GroupLayout.PREFERRED_SIZE))
    );

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

private void txtsearchKeyReleased(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
    String cari = txtsearch.getText();
    tabel(cari);
}

private void tableMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    int baris = table.getSelectedRow();
    ID = (String) table.getValueAt(baris, 0);
    System.out.println(ID);
}

```

```

private void jMenuItem2MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    Login login = new Login();
    login.setVisible(true);
    dispose();
}

private void btnpesanActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if (!ID.isEmpty()) {
        String username, id_alat;
        username = Login.IDU;
        id_alat = ID;
        String tanggal = LocalDate.now().toString();

        int response = JOptionPane.showConfirmDialog(this, "Apakah
        Anda Yakin Ingin Membeli Produk Dengan ID " + id_alat, "Konfirmasi",
        JOptionPane.YES_NO_OPTION);
        switch (response) {
            case JOptionPane.YES_OPTION:
                try {
                    Connection conn = koneksi.getConnection();
                    String sql = "INSERT INTO orders VALUES (NULL,?,?,?)";
                    PreparedStatement stmt = conn.prepareStatement(sql);
                    stmt.setString(1, username);
                    stmt.setString(2, id_alat);
                    stmt.setString(3, tanggal);

                    int rowAffected = stmt.executeUpdate();
                    if (rowAffected > 0) {
                        ID = null;
                        JOptionPane.showMessageDialog(this, "Berhasil Membeli
                        Produk!", "SQL Information", JOptionPane.INFORMATION_MESSAGE);
                        stmt.close();
                        tabel();
                    }
                } catch (SQLException e) {
                    JOptionPane.showMessageDialog(this, "Error: " +
                    e.getMessage(), "SQL Error", JOptionPane.ERROR_MESSAGE);
                }
                break;
            default:
                throw new AssertionError();
        }
    } else {
        JOptionPane.showMessageDialog(this, "Harap Pilih Produk
        Terlebih Dahulu");
    }
}

```

```

    }

    private void jMenuItem6MouseClicked(java.awt.event.MouseEvent evt) {
        // TODO add your handling code here:
        Historyorder HO = new Historyorder();
        HO.setVisible(true);
        dispose();
    }

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

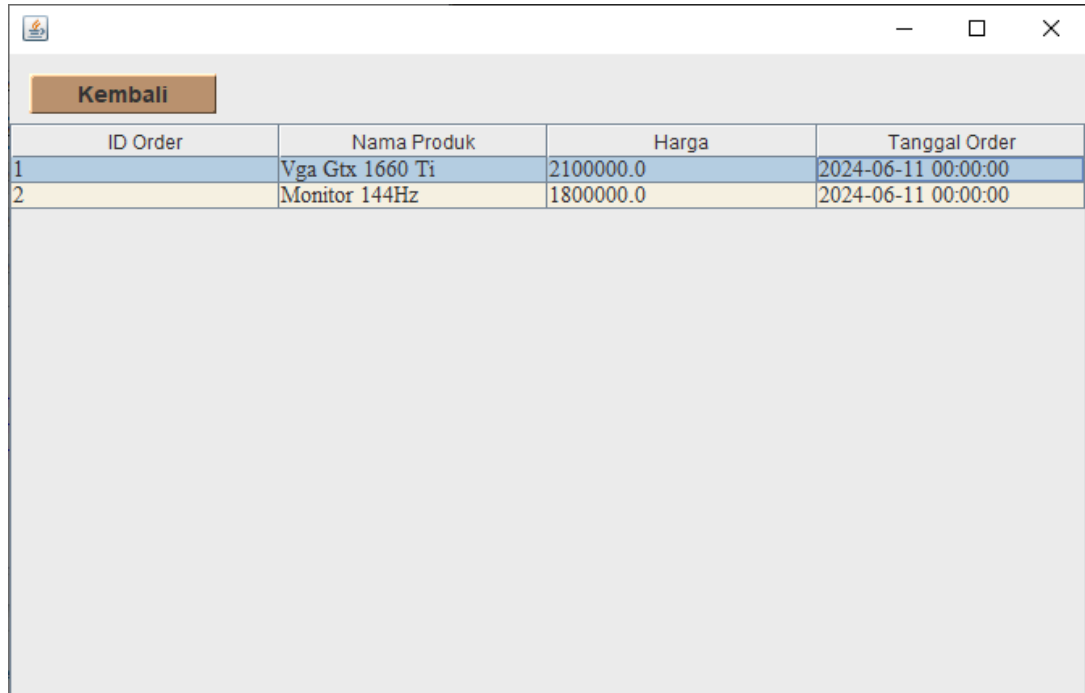
    /**
     * @param args the command line arguments
     */

    // Variables declaration - do not modify
    private javax.swing.JMenuBar MenuBarAdmin;
    private javax.swing.JButton btnpesan;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JMenu jMenuItem2;
    private javax.swing.JMenu jMenuItem6;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable table;
    private javax.swing.JTextField txtsearch;
    // End of variables declaration
}

```


g. Menu User (History Order)

- Design



The screenshot shows a Java Swing window with a title bar containing a standard icon, a minus button, a maximize button, and a close button. Inside the window, there is a button labeled "Kembali" (Back) in the top-left corner. Below the button is a table with four columns: "ID Order", "Nama Produk", "Harga", and "Tanggal Order". The table contains two rows of data. The first row has the values "1", "Vga Gtx 1660 Ti", "2100000.0", and "2024-06-11 00:00:00". The second row has the values "2", "Monitor 144Hz", "1800000.0", and "2024-06-11 00:00:00". The table is set against a light gray background.

ID Order	Nama Produk	Harga	Tanggal Order
1	Vga Gtx 1660 Ti	2100000.0	2024-06-11 00:00:00
2	Monitor 144Hz	1800000.0	2024-06-11 00:00:00

```
/*
 * Click
 nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
 change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
 to edit this template
 */
package TokoKomputer;

import TokoKomputer.MenuUser;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.JOptionPane;
import javax.swing.ListSelectionModel;
import javax.swing.table.DefaultTableModel;

public class Historyorder extends javax.swing.JFrame {

    private Connection con;
    private Statement stat;
    private ResultSet res;
```

```

public Historyorder() {
    initComponents();
    koneksi();
    tabel();
}

public void koneksi() {
    try {
        Class.forName("com.mysql.jdbc.Driver");
        con =
DriverManager.getConnection("jdbc:mysql://localhost/tokokomputer",
"root", "");
        stat = con.createStatement();
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null, e);
    }
}

private void tabel() {
    koneksi();
    DefaultTableModel tb = (DefaultTableModel) table.getModel();
    table.setSelectionMode(ListSelectionModel.SINGLE_SELECTION);
    tb.setRowCount(0);

    try {
        String sql = "select * from orders JOIN komputer ON
orders.idProduk = komputer.idProduk WHERE username = '" + Login.IDU
+ "'";
        res = stat.executeQuery(sql);
        while (res.next()) {
            tb.addRow(new Object[] {
                res.getInt("orderId"),
                res.getString("namaProduk"),
                res.getString("harga"),
                res.getString("orderDate")
            });
        }
        res.close();
        stat.close();
    } catch (SQLException e) {
        JOptionPane.showMessageDialog(null, "Error: " + e);
    }
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is
always
 * regenerated by the Form Editor.

```

```

*/
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jScrollPane1 = new javax.swing.JScrollPane();
    table = new javax.swing.JTable();
    jButton1 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    table.setBackground(new java.awt.Color(248, 242, 229));
    table.setFont(new java.awt.Font("Times New Roman", 0, 14)); // NOI18N
    table.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {
            {null, null, null, null},
            {null, null, null, null},
            {null, null, null, null},
            {null, null, null, null}
        },
        new String [] {
            "ID Order", "Nama Produk", "Harga", "Tanggal Order"
        }
    ));
    jScrollPane1.setViewportView(table);

    jButton1.setBackground(new java.awt.Color(185, 145, 111));
    jButton1.setFont(new java.awt.Font("Poppins", 1, 14)); // NOI18N
    jButton1.setText("Kembali");
    jButton1.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });

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

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jScrollPane1,

```

```

javax.swing.GroupLayout.DEFAULT_SIZE, 668, Short.MAX_VALUE)
    .addGroup(layout.createSequentialGroup())
    .addContainerGap()
    .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 116,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
    layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addContainerGap()
    .addComponent(jButton1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 357,
javax.swing.GroupLayout.PREFERRED_SIZE))
    );

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

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    MenuUser MU = new MenuUser();
    MU.setVisible(true);
    dispose();
}

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable table;
// End of variables declaration
}

```

