

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhr PBO

(KoneksiDBMS.java)

Capture Database :

- User

User accounts overview

	User name	Host name	Password	Global privileges	Grant	Action
<input type="checkbox"/>	Any	%	No	USAGE	No	Edit privileges Export Lock
<input type="checkbox"/>	adereiki02	localhost	No	ALL PRIVILEGES	Yes	Edit privileges Export Lock
<input type="checkbox"/>	pma	localhost	No	USAGE	No	Edit privileges Export Lock
<input type="checkbox"/>	root	127.0.0.1	No	ALL PRIVILEGES	Yes	Edit privileges Export Lock
<input type="checkbox"/>	root	:::1	No	ALL PRIVILEGES	Yes	Edit privileges Export Lock
<input type="checkbox"/>	root	localhost	No	ALL PRIVILEGES	Yes	Edit privileges Export Lock

- Database & Table

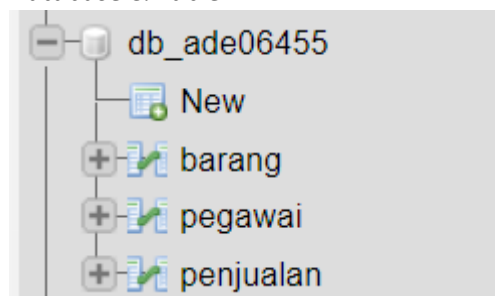


Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> barang	Browse Structure Search Insert Empty Drop	6	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> pegawai	Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> penjualan	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16.0 KiB	-
3 tables	Sum	9	InnoDB	latin1_swedish_ci	48.0 KiB	0 B

Source Code :

```
import java.sql.*;

public class KoneksiDBMS {
    String driverdbms = "com.mysql.jdbc.Driver";
    String database = "jdbc:mysql://localhost/db_ade06455";
    String user = "adereiki02";
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
String password = "";

public KoneksiDBMS(){
}

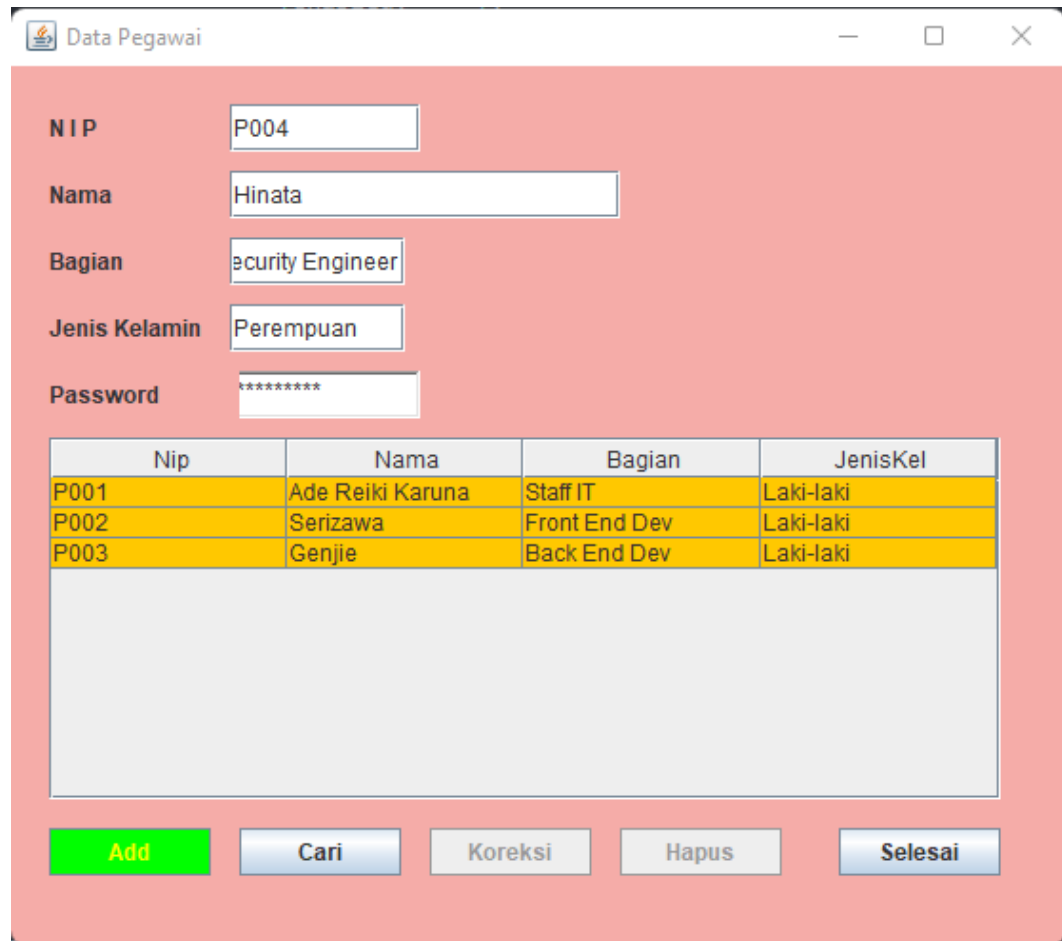
public Connection BukaCn() throws SQLException
{
    Connection condbms = null;
    try{
        Class.forName(driverdbms);
        condbms =
DriverManager.getConnection(database,user,password);

        return condbms;
    }
    catch (SQLException se){
        System.out.println("Ada kesalahan pada SQL !");
        return null;
    }
    catch (Exception ex){
        System.out.println("Koneksi gagal !");
        return null;
    }
}
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

(FormPegawai06455.java)

Capture Form :



Nip	Nama	Bagian	JenisKel
P001	Ade Reiki Karuna	Staff IT	Laki-laki
P002	Serizawa	Front End Dev	Laki-laki
P003	Genjie	Back End Dev	Laki-laki

Source Code :

```
import java.awt.*;
import java.awt.event.*;
import java.io.*;
import javax.swing.*;
import java.sql.*;

import javax.swing.table.DefaultTableModel;

public class FPegawai06455 extends JFrame implements ActionListener
{
    private JPanel pPgw = new JPanel();
    private JLabel lNip = new JLabel ("N I P"),
    private JLabel lNama = new JLabel ("Nama"),
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
lBagian      = new JLabel ("Bagian      "),
lJenisKel    = new JLabel ("Jenis Kelamin "),
lPassword    = new JLabel ("Password "),
lcreate      = new JLabel ("nama");

private JTextField fNip      = new JTextField (),
fNama          = new JTextField (),
fBagian        = new JTextField (),
fJenisKel      = new JTextField ();

private TextField fPassword  = new TextField ();
private JButton   btnAdd     = new JButton (),
btnCari         = new JButton (),
btnKoreksi      = new JButton (),
btnHapus        = new JButton (),
btnSelesai     = new JButton ();

//tambah
private ResultSet rs;
String[] header = {"Nip","Nama","Bagian","JenisKel"};

DefaultTableModel tabModel1;
JTable tabel = new JTable();
JScrollPane skrTabel = new JScrollPane();

public FPegawai06455() {
    setPreferredSize(new Dimension(570,500));
    setTitle("Data Pegawai");
    //setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

    JDesktopPane pPgw = new JDesktopPane();

    /* Mengatur letak objek Label Di container*/
    lNip.setBounds (20, 20, 100, 25);
    lNama.setBounds (20, 55, 100, 25);
    lBagian.setBounds (20, 90, 100, 25);
    lJenisKel.setBounds (20, 125, 100, 25);
    lPassword.setBounds (20, 160, 100, 25);
    lcreate.setBounds (230, 225, 200, 25);
    lcreate.setText("Ade Reiki -- A12.2020.06455");

    /* Mengatur letak objek Text Di Container */
    fNip.setBounds (115, 20, 100, 25);
    fNama.setBounds (115, 55, 205, 25);
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
fBagian.setBounds (115, 90, 92, 25);  
fJenisKel.setBounds (115, 125, 92, 25);  
fPassword.setBounds (115, 160, 100, 25);  
fPassword.setEchoChar('*');  
  
fNip.setToolTipText("Isi Nip dengan Angka !");  
  
/* Mengatur letak objek Button di Container */  
btnAdd.setBounds (20, 400, 85, 25);  
btnAdd.setLabel("Add");  
btnAdd.setBackground(Color.green);  
btnAdd.setForeground(Color.getHSBColor(250,0,255));  
btnCari.setBounds (120, 400, 85, 25);  
btnCari.setLabel("Cari");  
btnKoreksi.setBounds (220, 400, 85, 25);  
btnKoreksi.setLabel("Koreksi");  
btnHapus.setBounds (320, 400, 85, 25);  
btnHapus.setLabel("Hapus");  
btnSelesai.setBounds (435, 400, 85, 25);  
btnSelesai.setLabel("Selesai");  
btnSelesai.setToolTipText("Mengakhiri Program");  
  
//membuat tabel.....  
tabModel = new DefaultTableModel(null,header);  
tabel.setModel(tabModel);  
tabel.setBackground(Color.orange);  
skrTabel.getViewPort().add(tabel);  
tabel.setEnabled(true);  
skrTabel.setBounds(20,195,500,190);  
  
/* Objek Button di Non Aktifkan dan di aktifkan */  
btnAdd.setEnabled(true);  
btnSelesai.setEnabled(true);  
  
// Mengatur objek untuk dapat berinteraksi  
btnAdd.addActionListener (this);  
btnCari.addActionListener (this);  
btnKoreksi.addActionListener (this);  
btnHapus.addActionListener (this);  
btnSelesai.addActionListener (this);
```

Nama : Ade Reiki Karuna

NIM : A12.2020.06455

Mata Kuliah : PBO

Tugas Akhir PBO

```
// Meletakkan seluruh kontrol pada objek panel */
pPgw.add (skrTabel);
pPgw.add (lNip);
pPgw.add (fNip);
pPgw.add (lNama);
pPgw.add (fNama);
pPgw.add (lBagian);
pPgw.add (fBagian);
//tambahkan jeniskel
pPgw.add (lJenisKel);
pPgw.add (fJenisKel);

//tambahkan password
pPgw.add (lPassword);
pPgw.add (fPassword);
pPgw.add (lcreate);

pPgw.add (btnAdd);
pPgw.add (btnCari);
pPgw.add (btnKoreksi);
pPgw.add (btnHapus);
pPgw.add (btnSelesai);

/* Menambahkan objek panel (pPgr) ke container frame */
getContentPane().add
(pPgw).setBackground(Color.getHSBColor(100,150,75));

/* Menampilkan frame ke layar monitor */
pack();
setLocationRelativeTo(null);
tampiltabel();
Kosong();
settombol(1, 1, 0, 0, 1);

}

public static void main(String[] args) {
    new FPegawai06455().setVisible(true);
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
/* Fungsi jika user melakukan action penekanan tombol Button */
public void actionPerformed (ActionEvent ae) {
    Object obj = ae.getSource();

    if (obj == btnAdd)
    {
        if (btnAdd.getText()=="Simpan")
        {
            String xnip = fNip.getText();
            if (xnip.length() != 0) Add();
            else
                JOptionPane.showMessageDialog(this, "Nip kosong
!");

            btnAdd.setText("Add");
            Kosong();
            tampiltabel();
            settombol(1, 1, 0, 0, 1);
        }
        else
        {
            Kosong();
            settombol(1, 0, 0, 0, 1);
            btnAdd.setText("Simpan");
            btnAdd.setForeground(Color.getHSBColor(100,10,0));
            btnAdd.setBackground(Color.getHSBColor(200,100,100))
;
        }
    }

    if (obj == btnCari)
    {
        String xcari =
JOptionPane.showInputDialog(this,"Masukkan Nip !");
        if (xcari != null)
        {
            fNip.setText(xcari);
            int xx = Cari();
            if (xx == 1) settombol(1, 1, 1, 1, 1);
        }

        else
            JOptionPane.showMessageDialog(this, "Nip kosong !");
    }
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhr PBO

```
}

if (obj == btnKoreksi)
{
    if (btnKoreksi.getText()=="Simpan")
    {
        if (fNip.getText() != "")
            Koreksi();
        btnKoreksi.setText("Koreksi");
        tampiltabel();
        Kosong();
        settombol(1, 1, 0, 0, 1);
    }
    else
    {
        btnKoreksi.setText("Simpan");
        settombol(0, 0, 1, 0, 1);
        fNama.requestFocus();
    }
}

if (obj == btnHapus)
{
    int stt = JOptionPane.showConfirmDialog(this,"Yakin
dihapus ?");
    System.out.print(stt);

    if (stt == 0)
    {
        Hapus();
        tampiltabel();
        Kosong();
    }

}

if (obj == btnSelesai)
{
    //System.exit(0);
    this.dispose();
}
}
```


Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
// Fungsi untuk menambahkan data ke tabel barang
void Add()
{
    try
    {
        KoneksiDBMS CnPenjualan = new KoneksiDBMS();
        Connection con = CnPenjualan.BukaCn();
        Statement stat = con.createStatement();

        String strsqlcr = "SELECT * FROM pegawai WHERE nip =" +
            fNip.getText () + """;
        ResultSet rs = stat.executeQuery(strsqlcr);

        if(rs.next())
        {
            JOptionPane.showMessageDialog(this, "Nip Sudah Ada
            !");
            return;
        }

        String strsql = "INSERT INTO pegawai(nip, nama, bagian,
            jeniskel, password) values " +
            " ('"+fNip.getText() + "', '"+fNama.getText()+"'
            " +
            " , '"+fBagian.getText()+"', '"+fJenisKel.getText()
            +"' , '"+fPassword.getText()+"')";
        int stsproses = stat.executeUpdate(strsql);

        if (stsproses == 1)
            JOptionPane.showMessageDialog(this, "Sukses Di
            Tambahkan!!!");
        con.close();
    }
    catch(SQLException e)
    {
        JOptionPane.showMessageDialog(this, "Penambahan
        Gagal!!!");
        System.err.println("Kesalahan perintah SQL : " +
            e.getMessage());
    }
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
// Fungsi untuk mencari Kode_Barang ke tabel barang
int Cari(){
    int x = 0;
    try {

        KoneksiDBMS CnPenjualan = new KoneksiDBMS();
        Connection con = CnPenjualan.BukaCn();
        Statement stat = con.createStatement();

        String strsql = "SELECT * FROM pegawai WHERE nip =" +
fNip.getText () + "";
        ResultSet rs = stat.executeQuery(strsql);

        if(rs.next())
        {
            // Jika Nip Ditemukan Di Tabel Pegawai
            fNip.setText (rs.getString ("nip"));
            fNama.setText (rs.getString ("nama"));
            fBagian.setText (rs.getString ("bagian"));
            fJenisKel.setText (rs.getString ("jeniskel"));
            fPassword.setText (rs.getString ("password"));
            x = 1;
        }
        else
        {
            // Jika Nip tidak ditemukan
            JOptionPane.showMessageDialog(this, "Data tidak
ditemukan !");
            fNip.requestFocus ();
        }
        rs.close();
        con.close();
    }
    catch(SQLException e)
    {
    }
    return x;
}

// Fungsi untuk menambahkan data ke tabel barang
void Koreksi()
{
    try
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
{
    KoneksiDBMS CnPenjualan = new KoneksiDBMS();
    Connection con = CnPenjualan.BukaCn();
    Statement stat = con.createStatement();

    String strsql = "update pegawai set
nama='"+fNama.getText()+
    "',bagian='"+ fBagian.getText()+
    "' where nip='"+fNip.getText()+"' ";
    int stsproses = stat.executeUpdate(strsql);

    if (stsproses == 1)
        JOptionPane.showMessageDialog(this, "Sukses
DiEdit!");
    con.close();
}
catch(SQLException e)
{
    JOptionPane.showMessageDialog(this, "Koreksi Gagal !");
    System.err.println("Kesalahan perintah SQL : " +
e.getMessage());
}
}

// Fungsi untuk menambahkan data ke tabel barang
void Hapus()
{
    try
    {
        KoneksiDBMS CnPenjualan = new KoneksiDBMS();
        Connection con = CnPenjualan.BukaCn();
        Statement stat = con.createStatement();

        String strsql = "delete from pegawai where
nip='"+fNip.getText()+"' ";
        int stsproses = stat.executeUpdate(strsql);

        if (stsproses == 1)
            JOptionPane.showMessageDialog(this, "Data Terhapus
!");
        con.close();
    }
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        catch(SQLException e)
        {
            JOptionPane.showMessageDialog(this, "Penghapusan
Gagal!!!");
            System.err.println("Kesalahan perintah SQL : " +
e.getMessage());
        }
    }

    //tambah
    void tampiltabel()
    {
        try {
            bersihtabel();
            KoneksiDBMS CnPenjualan = new KoneksiDBMS();
            Connection con = CnPenjualan.BukaCn();
            Statement stat = con.createStatement();
            String strsql = "select * from pegawai";
            rs = stat.executeQuery(strsql);
            ResultSetMetaData meta = rs.getMetaData();

            rs.beforeFirst();
            while(rs.next()) {
                String Nip = rs.getString("nip");
                String Nama = rs.getString("nama");
                String Bagian = rs.getString("bagian");
                String JenisKel = rs.getString("jeniskel");
                String Password = rs.getString("password");
                String[] data = {Nip, Nama, Bagian, JenisKel,
Password};

                tabModel1.addRow(data);
            }
            stat.close();
            rs.close();
            con.close();

        } catch (SQLException se) {
            System.err.println("Kesalahan perintah SQL : " +
se.getMessage());
        }
    }
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
void bersihtabel()
{
    int brs = tabMode1.getRowCount();
    for(int i=0;i<brs;i++)
    {
        tabMode1.removeRow(0);
    }
}

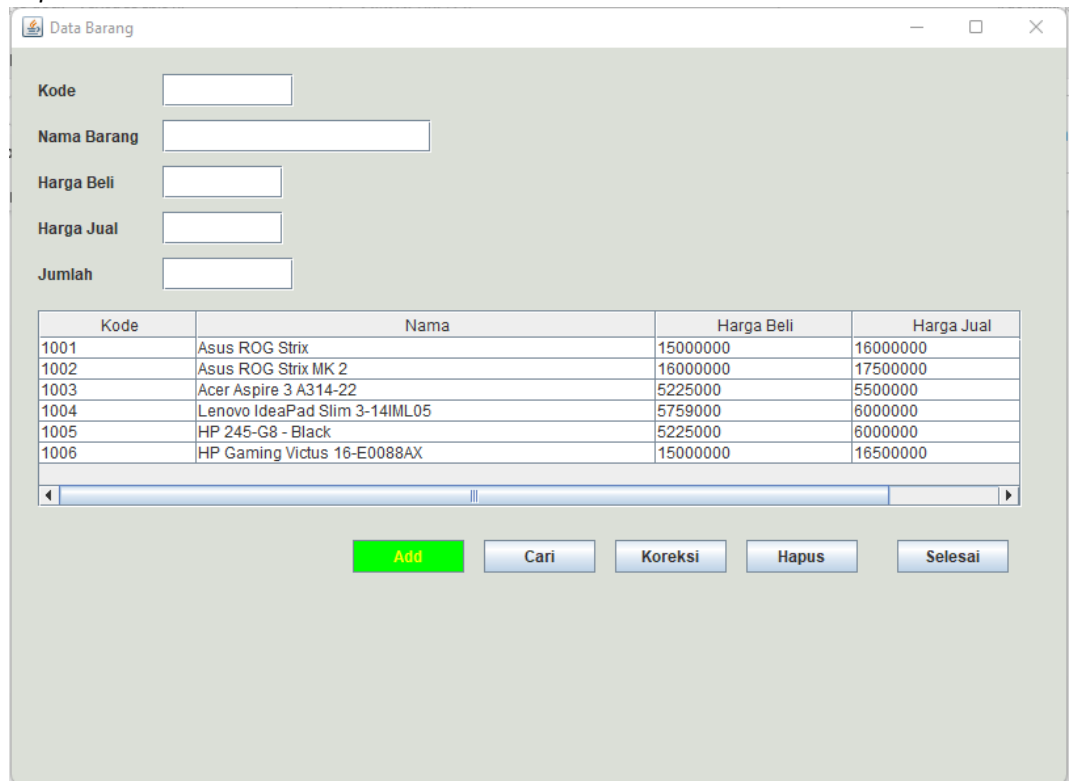
// Fungsi untuk mengkosongkan Objek masukan
void Kosong ()
{
    fNip.setText ("");
    fNama.setText ("");
    fBagian.setText ("");
    fJenisKel.setText ("");
    fPassword.setText ("");
    fNip.requestFocus ();
}

void settombol(int a, int b, int c, int d, int e)
{
    btnAdd.setEnabled(a>=1 ? true: false);
    btnCari.setEnabled(b>=1 ? true: false);
    btnKoreksi.setEnabled(c>=1 ? true: false);
    btnHapus.setEnabled(d>=1 ? true: false);
    btnSelesai.setEnabled(e>=1 ? true: false);
}
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

(FormBarang06455.java)

- *Capture Form :*



Kode	Nama	Harga Beli	Harga Jual
1001	Asus ROG Strix	15000000	16000000
1002	Asus ROG Strix MK 2	16000000	17500000
1003	Acer Aspire 3 A314-22	5225000	5500000
1004	Lenovo IdeaPad Slim 3-14IML05	5759000	6000000
1005	HP 245-G8 - Black	5225000	6000000
1006	HP Gaming Victus 16-E0088AX	15000000	16500000

- *Source Code :*

```
import java.awt.*;
import java.awt.event.*;
import java.io.*;
import javax.swing.*;
import java.sql.*;
import javax.swing.table.DefaultTableModel;

public class FBarang06455 extends JFrame implements ActionListener,
MouseListener
{
    private JPanel pBrg = new JPanel();
    private JLabel lKode = new JLabel ("Kode
"),
    private JLabel lNama = new JLabel ("Nama
Barang "),
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhr PBO

```
lHrgBeli = new JLabel ("Harga
Beli "),

lHrgJual = new JLabel ("Harga
Jual"),

lJumlah = new JLabel
("Jumlah ");

private JTextField fKode    = new JTextField (),
fNama    = new JTextField (),
fHrgBeli = new JTextField (),
fHrgJual = new JTextField (),
fJumlah  = new JTextField ();

private JButton btnAdd    = new JButton (),
btnCari    = new JButton (),
btnKoreksi = new JButton (),
btnHapus   = new JButton (),
btnSelesai = new JButton ();

private ResultSet rs;
String[] header = {"Kode","Nama","Harga Beli", "Harga Jual",
"Jumlah"};
//Integer[] lebaklm = {30, 85, 42, 42, 42};
Integer[] lebaklm = {75,200,100,100,100};

DefaultTableModel tabMode01;
JTable tabel = new JTable();
JScrollPane skrTabel = new JScrollPane();

public FBarang06455() {
    setPreferredSize(new Dimension(800,600));
    setTitle("Data Barang");
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

    new BorderLayout();
    JDesktopPane pBrg = new JDesktopPane();
    add(pBrg, BorderLayout.CENTER);

    /* Mengatur letak objek Label Di container*/
    lKode.setBounds (20, 20, 100, 25);
    lNama.setBounds (20, 55, 100, 25);
    lHrgBeli.setBounds (20, 90, 100, 25);
    lHrgJual.setBounds (20, 125, 100, 25);
    lJumlah.setBounds (20, 160, 100, 25);
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
/* Mengatur letak objek Text Di Container */
fKode.setBounds (115, 20, 100, 25);
fNama.setBounds (115, 55, 205, 25);
fHrgBeli.setBounds (115, 90, 92, 25);
fHrgJual.setBounds (115, 125, 92, 25);
fJumlah.setBounds (115, 160,100,25);

/* Mengatur letak objek Button di Container */
btnAdd.setBounds (260, 375, 85, 25);
btnAdd.setLabel("Add");
btnAdd.setBackground(Color.green);
btnAdd.setForeground(Color.getHSBColor(250,0,255));
btnCari.setBounds (360, 375, 85, 25);
btnCari.setLabel("Cari");
btnKoreksi.setBounds (460, 375, 85, 25);
btnKoreksi.setLabel("Koreksi");
btnHapus.setBounds (560, 375, 85, 25);
btnHapus.setLabel("Hapus");
btnSelesai.setBounds (675, 375, 85, 25);
btnSelesai.setLabel("Selesai");
btnSelesai.setToolTipText("Mengakhiri Program");

/* Objek Button di Non Aktifkan dan di aktifkan */
btnAdd.setEnabled(true);
btnSelesai.setEnabled(true);

// Mengatur objek untuk dapat berinteraksi
btnAdd.addActionListener (this);
btnCari.addActionListener (this);
btnKoreksi.addActionListener (this);
btnHapus.addActionListener (this);
btnSelesai.addActionListener (this);
tabel.addMouseListener(this);

tabMode01 = new DefaultTableModel(null,header);
tabel.setModel(tabMode01);

skrTabel.getViewPort().add(tabel);
tabel.setEnabled(true);
skrTabel.setBounds(20,200,750,150);

tabel.setAutoResizeMode(JTable.AUTO_RESIZE_OFF);
```


Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        tabel.getColumnModel().getColumn(0).setPreferredWidth(120);
        tabel.getColumnModel().getColumn(1).setPreferredWidth(350);
        tabel.getColumnModel().getColumn(2).setPreferredWidth(150);
        tabel.getColumnModel().getColumn(3).setPreferredWidth(150);

        /* Mengatur Perataan teks di Text */
        fHrgBeli.setHorizontalAlignment (JTextField.RIGHT);
        fHrgJual.setHorizontalAlignment (JTextField.RIGHT);
        fJumlah.setHorizontalAlignment (JTextField.RIGHT);

        // Meletakkan seluruh kontrol pada objek panel */
        pBrg.add (skrTabel);
        pBrg.add (lKode);
        pBrg.add (fKode);
        pBrg.add (lNama);
        pBrg.add (fNama);
        pBrg.add (lHrgBeli);
        pBrg.add (fHrgBeli);
        pBrg.add (lHrgJual);
        pBrg.add (fHrgJual);
        pBrg.add (lJumlah);
        pBrg.add (fJumlah);
        pBrg.add (btnAdd);
        pBrg.add (btnKoreksi);
        pBrg.add (btnHapus);
        pBrg.add (btnCari);
        pBrg.add (btnSelesai);
        /* Menambahkan objek panel (pBrg) ke container frame */
        getContentPane().add
        (pBrg).setBackground(Color.getHSBColor(110,110,110));

        /* Menampilkan frame ke layar monitor */
        pack();
        setLocationRelativeTo(null);
        tampiltabel();
        setVisible (true);
    }

    public static void main(String[] args) {
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        new FBarang06455().setVisible(true);
    }

    /* Fungsi jika user melakukan action penekanan tombol Button */
    public void actionPerformed (ActionEvent ae) {
        Object obj = ae.getSource();

        if (obj == btnAdd)
        {
            if (btnAdd.getText()=="Simpan")
            {
                String xnip = fKode.getText();
                if (xnip.length() != 0) Add();
                else
                JOptionPane.showMessageDialog(this, "Kode kosong !");
                btnAdd.setText("Add");
                Kosong();
                settombol(1, 1, 0, 0, 1);
            }
            else
            {
                Kosong();
                settombol(1, 0, 0, 0, 1);
                btnAdd.setText("Simpan");
                btnAdd.setForeground(Color.getHSBColor(100,10,0));
                btnAdd.setBackground(Color.getHSBColor(200,100,100));
            }
        }
        if (obj == btnCari)
        {
            String xcari =
            JOptionPane.showInputDialog(this,"Masukkan kode !");
            if (xcari != null)
            {
                fKode.setText(xcari);
                int xx = Cari();
                if (xx == 1) settombol(1, 1, 1, 1, 1);
            }
            else
                JOptionPane.showMessageDialog(this, "kode kosong
!");
        }
    }
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
if (obj == btnKoreksi)
{
    if (btnKoreksi.getText()=="Simpan")
    {
        if (fKode.getText() != "")
        Koreksi();
        btnKoreksi.setText("Koreksi");
        Kosong();
        settombol(1, 1, 0, 0, 1);
    }
    else
    {
        btnKoreksi.setText("Simpan");
        settombol(0, 0, 1, 0, 1);
        fName.requestFocus();
    }
}

if (obj == btnHapus)
{
    int stt = JOptionPane.showConfirmDialog(this,"Yakin dihapus?");
    System.out.print(stt);
    if (stt == 0)
    {
        Hapus();
        Kosong();
    }
}

if (obj == btnSelesai)
{
    //System.exit(0);
    this.dispose();
}

private void tampil()
{
    try
    {
        String vkode = String.valueOf(tabel.getValueAt(tabel.getSelectedRow(),0));
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhr PBO

```
String vnama = String.valueOf(tabel.getValueAt
(tabel.getSelectedRow(),1));
String vhrghbeli =
String.valueOf(tabel.getValueAt
(tabel.getSelectedRow(),2));
String vhrghjual =
String.valueOf(tabel.getValueAt
(tabel.getSelectedRow(),3));
String vjumlah = String.valueOf(tabel.getValueAt
(tabel.getSelectedRow(),4));
fKode.setText(vkode);
fNama.setText(vnama);
fHrgBeli.setText(vhrghbeli);
fHrgJual.setText(vhrghjual);
fJumlah.setText(vjumlah);

}
catch (Exception e)
{
    JOptionPane.showMessageDialog(this, "Ada
Kesalahan!!!");
}
}

// pendefinisian method dari interface mouselistener.....
public void mouseClicked(MouseEvent me)
{
    try
    {
        String vkode = String.valueOf(tabel.getValueAt
(tabel.getSelectedRow(),0));
        String vnama = String.valueOf(tabel.getValueAt
(tabel.getSelectedRow(),1));
        String vhrghbeli =
String.valueOf(tabel.getValueAt
(tabel.getSelectedRow(),2));
        String vhrghjual =
String.valueOf(tabel.getValueAt
(tabel.getSelectedRow(),3));
        String vjumlah = String.valueOf(tabel.getValueAt
(tabel.getSelectedRow(),4));
        fKode.setText(vkode);
        fNama.setText(vnama);
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        fHrgBeli.setText(vhrgbeli);
        fHrgJual.setText(vhrgjual);
        fJumlah.setText(vjumlah);

    }
    catch (Exception e)
    {
        JOptionPane.showMessageDialog(this, "Ada
Kesalahan !!!");
    }
}

public void mouseExited(MouseEvent me){}
public void mouseEntered(MouseEvent me){}
public void mousePressed(MouseEvent me){}
public void mouseReleased(MouseEvent me){}

// Fungsi untuk menambahkan data ke tabel barang
void Add()
{
    try
    {
        KoneksiDBMS CnPenjualan = new KoneksiDBMS();
        Connection con = CnPenjualan.BukaCn();
        Statement stat = con.createStatement();

        String strsqlcr = "SELECT * FROM barang WHERE
kode = '" +
fKode.getText () + "'";
        ResultSet rs = stat.executeQuery(strsqlcr);

        if(rs.next())
        {
            JOptionPane.showMessageDialog(this,
"Kode Sudah Ada !");
            return;
        }

        String strsql = "insert into barang(kode, nama,
hrghbeli, hrghjual, jumlah) values " +
                        " ('"+fKode.getText() +
"', '"+fNama.getText()+"', '"+fHrgBeli.getText()+"',
 '"+fHrgJual.getText()+"', '"+fJumlah.getText()+"')";
        int stsproses = stat.executeUpdate(strsql);
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        if (stsproses == 1)
            JOptionPane.showMessageDialog(this, "Sukses Di
Tambahkan!!!");
            con.close();

    }
    catch(SQLException e)
    {
        JOptionPane.showMessageDialog(this, "Penambahan
Gagal!!!");
        System.err.println("Kesalahan perintah SQL : " +
e.getMessage());
    }
}

// Fungsi untuk mencari Kode_Barang ke tabel barang
int Cari(){
    int x = 0;
    try {
        KoneksiDBMS CnPenjualan = new KoneksiDBMS();
        Connection con = CnPenjualan.BukaCn();
        Statement stat = con.createStatement();

        String strsql = "SELECT * FROM barang WHERE kode
=" + fKode.getText () + "'";
        ResultSet rs = stat.executeQuery(strsql);
        if(rs.next())
        {
            // Jika kode Ditemukan Di Tabel barang
            fKode.setText (rs.getString ("kode"));
            fNama.setText (rs.getString ("nama"));
            fHrgBeli.setText (rs.getString
("hrgbeli"));
            fHrgJual.setText (rs.getString
("hrgjual"));
            fJumlah.setText (rs.getString
("Jumlah"));
            x = 1;
        }
        else
        {
            // Jika kode tidak ditemukan
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhr PBO

```
                JOptionPane.showMessageDialog(this,
"Data tidak ditemukan !");
                fKode.requestFocus ();
            }
            rs.close();
            con.close();
        }
        catch(SQLException e)
        {
        }
        return x;
    }
}

// Fungsi untuk menambahkan data ke tabel barang
void Koreksi()
{
    try
    {
        KoneksiDBMS CnPenjualan = new KoneksiDBMS();
        Connection con = CnPenjualan.BukaCn();
        Statement stat = con.createStatement();

        String strsql = "update barang set nama='" +
fNama.getText()+
                                "',hrgbeli='" +
fHrgBeli.getText()+
                                "' where kode='" +
fKode.getText()+"' ";
        int stsproses = stat.executeUpdate(strsql);

        if (stsproses == 1)
        JOptionPane.showMessageDialog(this, "Sukses DiEdit!");
        con.close();
    }
    catch(SQLException e)
    {
        JOptionPane.showMessageDialog(this, "Koreksi
Gagal !");
        System.err.println("Kesalahan perintah SQL : " +
e.getMessage());
    }
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
// Fungsi untuk menambahkan data ke tabel barang
void Pembetulan()
{
    try
    {
        KoneksiDBMS CnPenjualan = new KoneksiDBMS();
        Connection con = CnPenjualan.BukaCn();
        Statement stat = con.createStatement();

        String strsql = "update barang set nama='" +
fNama.getText()+
                                "',hrgjual='" +
fHrgJual.getText()+
                                "' where kode='" +
fKode.getText()+"' ";
        int stsproses = stat.executeUpdate(strsql);

        if (stsproses == 1)
        JOptionPane.showMessageDialog(this, "Sukses DiEdit!");
        con.close();
    }
    catch(SQLException e)
    {
        JOptionPane.showMessageDialog(this, "Koreksi
Gagal !");
        System.err.println("Kesalahan perintah SQL : "
+ e.getMessage());
    }
}

// Fungsi untuk menambahkan data ke tabel barang
void Hapus()
{
    try
    {
        KoneksiDBMS CnPenjualan = new KoneksiDBMS();
        Connection con = CnPenjualan.BukaCn();
        Statement stat = con.createStatement();

        String strsql = "delete from barang where kode='" +
fKode.getText()+"' ";
        int stsproses = stat.executeUpdate(strsql);
    }
}
```


Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        if (stsproses == 1)
            JOptionPane.showMessageDialog(this, "Data Terhapus !");
        con.close();
    }
    catch (SQLException e)
    {
        JOptionPane.showMessageDialog(this,
"Penghapusan Gagal!!!");
        System.err.println("Kesalahan perintah SQL : "
+ e.getMessage());
    }
}
void tampiltabel()
{
    try {
        bersihtabel();
        KoneksiDBMS CnPenjualan = new KoneksiDBMS();
        Connection con = CnPenjualan.BukaCn();
        Statement stat = con.createStatement();

        String strsql = "select * from barang";
        rs = stat.executeQuery(strsql);

        ResultSetMetaData meta = rs.getMetaData();
        rs.beforeFirst();
        while(rs.next()) {
            String Kode = rs.getString("kode");
            String Nama = rs.getString("nama");
            String hargaBeli = rs.getString("hrngbeli");
            String hargaJual = rs.getString("hrngjual");
            String Jumlah = rs.getString("jumlah");
            String[] data = {Kode, Nama, hargaBeli,
hargaJual, Jumlah};
            tabMode01.addRow(data);
        }
        stat.close();
        rs.close();
        con.close();

    } catch (SQLException se) {
        System.err.println("Kesalahan perintah SQL : " + se.getMessage());
    }
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
void bersih tabel()
{
    int brs = tabMode01.getRowCount();
    for(int i=0;i<brs;i++)
    {
        tabMode01.removeRow(0);
    }
}

// Fungsi untuk mengkosongkan Objek masukan
void Kosong ()
{
    fKode.setText ("");
    fNama.setText ("");
    fHrgBeli.setText ("");
    fHrgJual.setText ("");
    fJumlah.setText ("");
    fKode.requestFocus ();
}

void settombol(int a, int b, int c, int d, int e)
{
    btnAdd.setEnabled(a>=1 ? true: false);
    btnCari.setEnabled(b>=1 ? true: false);
    btnKoreksi.setEnabled(c>=1 ? true: false);
    btnHapus.setEnabled(d>=1 ? true: false);
    btnSelesai.setEnabled(e>=1 ? true: false);
}
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhr PBO

(FormJual06455.java)

- Capture Form :

The screenshot shows a Java Swing window titled "Transaksi Penjualan". Inside the window, the name "Ade Reiki Karuna" and NIM "A12.2020.06455" are displayed in large blue text. Below this, there is a label "No. Transaksi" followed by a text input field containing "21002". A table with 5 columns (Kode, Nama, Harga, Jumlah, Total) contains one row of data: Kode "1001", Nama "Asus ROG Strix", Harga "16000000", Jumlah "5", and Total "8.0E7". Below the table, there are input fields for "Kode", "Harga", and "Jumlah". To the right of these, there are labels "Bayar" and "Kembali" with corresponding input fields showing values "500000" and "-7.95E7" respectively. At the bottom, there are four buttons: "Jual", "Delete", "Cari", and "Selesai".

Kode	Nama	Harga	Jumlah	Total
1001	Asus ROG Strix	16000000	5	8.0E7

- Source Code :

```
import java.awt.BorderLayout;  
import java.awt.Dimension;  
import java.awt.Font;  
import java.awt.Color;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
import java.awt.event.*;  
import javax.swing.*;  
import java.sql.*;
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
import javax.swing.table.DefaultTableModel;

public class FJual06455 extends JFrame implements ActionListener,
FocusListener
{
    private JPanel pBrg =
new JPanel();
    private JLabel lNoJual =
new JLabel ("No. Transaksi "),
lKode =
new JLabel ("Kode "),
lNama =
new JLabel ("Nama"),
lHarga =
new JLabel ("Harga "),
lJumlah =
new JLabel ("Jumlah "),
lBayar =
new JLabel ("Bayar "),
lKembali =
new JLabel ("Kembali "),
lTotal =
new JLabel ("Total "),
lToko1 =
new JLabel ("Ade Reiki Karuna"),
lToko2 =
new JLabel ("A12.2020.06455");

    private JTextField fNoJual =
new JTextField (),
fKode =
new JTextField (),
fNama =
new JTextField (),
fHarga =
new JTextField (),
fJumlah =
new JTextField (),
fTotal =
new JTextField (),
fBayar =
new JTextField (),
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```

                                                                    fKembali =
new JTextField ();

        private JButton                btnJual = new JButton
    (
        ),
        btnDelete = new JButton
    (
        ),
        btnCari    = new JButton
    (
        ),
        btnSelesai = new JButton
    (
        );

        private ResultSet rs;
        String[] header = {"Kode", "Nama", "Harga", "Jumlah",
"Total"};

        DefaultTableModel tabMode01;
        JTable tabel = new JTable();
        JScrollPane skrTabel = new JScrollPane();

        double total = 0, bayar = 0, kembali = 0;
        int xjumlah = 0;

        public FJual06455() {
            setPreferredSize(new Dimension(580,600));
            setTitle("Transaksi Penjualan");
            setDefaultCloseOperation(JFrame.EXIT_ON_CLOS
E);

            new BorderLayout();
            JDesktopPane pBrg = new JDesktopPane();
            add(pBrg, BorderLayout.CENTER);

            /* Mengatur letak objek Label Di container*/
            lToko1.setBounds (15, 28, 450, 40);
            lToko1.setFont( new Font( "Dialog" , 1 , 36
));

            lToko2.setBounds (15, 58, 450, 40);
            lToko2.setFont( new Font( "Dialog" , 1 , 18
));

            lToko1.setForeground(Color.BLUE);

            lNoJual.setBounds (15, 100, 120, 20);
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
lKode.setBounds (15, 400, 60, 20);
lHarga.setBounds (15, 425, 60, 20);
lJumlah.setBounds (15, 450, 60, 20);
lBayar.setBounds (350, 425, 60, 20);
lKembali.setBounds (350, 450, 60, 20);

/* Mengatur letak objek Text Di Container */
fNoJual.setBounds (15, 125, 100, 20);
fKode.setBounds (75, 400, 100, 20);
fNama.setBounds (180, 400, 205, 20);
fTotal.setBounds (400, 400, 150, 20);
fHarga.setBounds (75, 425, 92, 20);
fBayar.setBounds (400, 425, 150, 20);
fKembali.setBounds (400, 450, 150, 20);
fJumlah.setBounds (75, 450, 100, 20);

/* Mengatur letak objek Button di Container
*/

btnJual.setBounds (165, 500, 85, 25);
btnJual.setLabel("Jual");
btnDelete.setBounds (265, 500, 85, 25);
btnDelete.setLabel("Delete");
btnCari.setBounds (365, 500, 85, 25);
btnCari.setLabel("Cari");
btnSelesai.setBounds (465, 500, 85, 25);
btnSelesai.setLabel("Selesai");
tabMode01 = new
DefaultTableModel(null,header);
tabel.setModel(tabMode01);
skrTabel.getViewport().add(tabel);
tabel.setEnabled(true);
skrTabel.setBounds(15,160,540,220);

/* Mengatur Perataan teks di Text */
fHarga.setHorizontalAlignment
(JTextField.RIGHT);

fJumlah.setHorizontalAlignment
(JTextField.RIGHT);

fBayar.setHorizontalAlignment
(JTextField.RIGHT);

fKembali.setHorizontalAlignment
(JTextField.RIGHT);
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
fTotal.setHorizontalAlignment  
(JTextField.RIGHT);  
  
/* Objek Button di Non Aktifkan dan di  
aktifkan */  
  
btnJual.setEnabled(true);  
btnDelete.setEnabled(false);  
btnSelesai.setEnabled(true);  
  
/* Mengatur objek untuk dapat berinteraksi  
*/  
  
fKode.addFocusListener (this);  
fJumlah.addFocusListener (this);  
fKembali.addFocusListener (this);  
btnJual.addActionListener (this);  
btnDelete.addActionListener (this);  
btnCari.addActionListener (this);  
btnSelesai.addActionListener (this);  
//tabel.TampungMouseListener(this);  
  
// Meletakkan seluruh kontrol pada objek  
panel */  
  
pBrg.add (skrTabel);  
pBrg.add(lToko1);  
pBrg.add(lToko2);  
pBrg.add(lNoJual);  
pBrg.add(fNoJual);  
pBrg.add(lKode);  
pBrg.add(fKode);  
pBrg.add(lNama);  
pBrg.add(fNama);  
pBrg.add(lHarga);  
pBrg.add(fHarga);  
pBrg.add(lJumlah);  
pBrg.add(fJumlah);  
pBrg.add(lTotal);  
pBrg.add(fTotal);  
pBrg.add(lBayar);  
pBrg.add(fBayar);  
pBrg.add(lKembali);  
pBrg.add(fKembali);  
pBrg.add(btnJual);  
pBrg.add(btnDelete);
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        pBrg.add(btnCari);
        pBrg.add(btnSelesai);

        /* Menambahkan objek panel (pBrg) ke
container frame */
        getContentPane().add (pBrg);

        /* Menampilkan frame ke layar monitor */
        pack();
        setLocationRelativeTo(null);
        CariNoJual();
        //tampiltabel();
        setVisible (true);
    }
    public static void main(String[] args) {
        new FJual06455().setVisible(true);
    }

    /* Fungsi untuk memeriksa kursor saat meninggalkan
objek txtKode_Barang */
    public void focusGained (FocusEvent fe)
    {
        if (fBayar.getText().equals (""))
        {
        }
        else
            Bayar();
    }
    public void focusLost (FocusEvent fe)
    {
        if (fKode.getText().equals (""))
        {
        }
        else
        {
            Cari();
            fJumlah.requestFocus ();
        }
    }

    if ((fJumlah.getText().equals (""))) { }
    else
    {
        int stat = CekJumlah();
    }
}
```


Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        if (stat == 1)
        {
            fJumlah.requestFocus();
        }
        else
        {
            tampiltabel();
            Kosong();
        }
    }
}

/* Fungsi jika user melakukan action penekanan tombol
Button */
public void actionPerformed (ActionEvent ae) {
    Object obj = ae.getSource();
    if (obj == btnJual)
    {
        SimpanJual();
        bersihtabel();
        total = 0;
        fTotal.setText("");
        Kosong();
        CariNoJual();
    }
    if (obj == btnDelete)
    {
        bersihtabel();
        Kosong();
    }
    if (obj == btnCari)
    {
        Cari();
    }
    if (obj == btnSelesai)
    {
        this.dispose();
    }
}

// Fungsi untuk mencari Kode_Barang ke tabel barang
void CariNoJual(){
    try {
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
KoneksiDBMS();
CnPenjualan.BukaCn();
con.createStatement();

String sql1 = "SELECT * FROM
penjualan";
ResultSet rs1 =
    if(rs1.next())
    {
        rs1.last();
        // Jika Kode Barang
        Ditemukan Di Tabel Barang
        int xno =
        Integer.parseInt(rs1.getString ("no_transaksi"));
        fNoJual.setText
        (String.valueOf(xno + 1));

        btnJual.setEnabled(false);
        fKode.requestFocus ();
    }
    else
    {
        // Jika Kode Barang Tidak
        ketemu di Tabel Barang ..
        fNoJual.setText ("21001");
        fKode.setText("");

        fKode.requestFocus();
    }
    rs1.close();
    con.close();
}
catch(SQLException e)
{
}
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
// Fungsi untuk mencari data Barang di tabel barang
.....
void Cari(){
    try
    {
        KoneksiDBMS CnPenjualan = new
KoneksiDBMS();
        Connection con =
CnPenjualan.BukaCn();
        Statement stat =
con.createStatement();

        String sql1 = "SELECT * FROM
barang WHERE kode =' " + fKode.getText () + "'";
        ResultSet rs1 =
stat.executeQuery(sql1);
        if(rs1.next())
        {
            // Jika Kode Barang
            Ditemukan Di Tabel Barang
            fKode.setText
            fNama.setText
            fHarga.setText
            xjumlah =
Integer.parseInt(rs1.getString ("jumlah"));
            btnJual.setEnabled(f
            btnDelete.setEnabled
            fNama.requestFocus
            ();
        }
        else
        {
            // Jika Kode Barang
            Tidak ketemu di Tabel Barang ..
            fKode.setText("");
            JOptionPane.showMessageDialog
            (this, "Kode barang tidak ditemukan !!");
            fKode.requestFocus();
        }
    }
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
    }  
    rs1.close();  
    con.close();  
}  
catch(SQLException e)  
{  
}  
}  
  
// Fungsi untuk mencari Kode_Barang ke tabel barang  
int CekJumlah(){  
    int x = 0;  
    try  
    {  
        if (xjumlah <  
Integer.parseInt(fJumlah.getText()))  
        {  
            fJumlah.setText("");  
JOptionPane.showMessageDialog  
og(this, "Jumlah Barang : " + xjumlah);  
            x = 1;  
        }  
    }  
    catch(Exception e)  
    {  
    }  
    return x;  
}  
  
//Simpan Data.....  
void SimpanJual()  
{  
    try  
    {  
        KoneksiDBMS CnPenjualan = new  
KoneksiDBMS();  
        Connection con =  
CnPenjualan.BukaCn();  
        Statement stat =  
con.createStatement();  
        int brs =  
tabMode01.getRowCount();
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhr PBO

```

        for(int i=0;i<brs;i++)
        {
            int vnojual = Integer.parseInt(fNoJual.getText());

            String vkode = String.valueOf(tabel.getValueAt(i,0));
            String vharga = String.valueOf(tabel.getValueAt(i,2));
            String vjumlah = String.valueOf(tabel.getValueAt(i,3));

            String strsql = "insert into penjualan(no_transaksi, kode, harga, jumlah) " + "values ('"+ vnojual + "', '"+ vkode + "', '"+ vharga + "', '"+ vjumlah + "')";

            int stsproses = stat.executeUpdate(strsql);

            //update data barang.....
            String strsqlupdate = "update barang set jumlah = jumlah - '"+ vjumlah + "' " + " where kode = '"+ vkode + "'";

            int stsprosesupdate = stat.executeUpdate(strsqlupdate);

        }
        con.close();
    }

    catch(SQLException e)
    {
        JOptionPane.showMessageDialog(this, "Ada Kesalahan !!!");
    }

    void Bayar()
    {
        try {
            fBayar.requestFocus();
        }
    }
}

```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

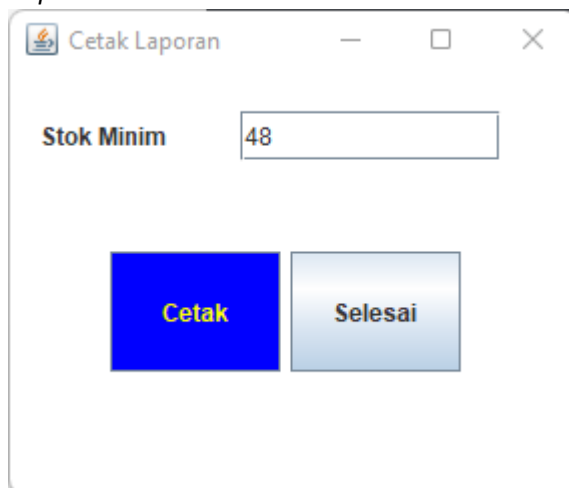
```
                kembali =  
Float.parseFloat(fBayar.getText()) -  
                Float.parseFloat(fTotal.getText());  
                fKembali.setText (String.valueOf(kembali));  
  
            } catch (Exception se) {  
                System.err.println("Pesan Salah : " +  
se.getMessage());  
            }  
        }  
  
        void tampiltabel()  
        {  
            try {  
  
                String Kode    = fKode.getText();  
                String Nama    = fNama.getText();  
                String Harga    = fHarga.getText();  
                String Jumlah   = fJumlah.getText();  
                String Total    =  
String.valueOf(Float.parseFloat(fHarga.getText()) *  
Float.parseFloat(fJumlah.getText()));  
                String[] data = {Kode, Nama, Harga, Jumlah,  
Total};  
  
                tabMode01.addRow(data);  
  
                //masukkan ke total.....  
                total = total + Float.parseFloat(Total);  
                fTotal.setText (String.valueOf(total));  
  
            } catch (Exception se) {  
                System.err.println("Pesan Salah : " +  
se.getMessage());  
            }  
        }  
  
        void bersihtabel()  
  
        {  
  
            int brs = tabMode01.getRowCount();  
            for(int i=0;i<brs;i++)  
            {  
  
                tabMode01.removeRow(0);  
            }  
        }  
    }  
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
    }  
}  
  
// Fungsi untuk mengkosongkan Objek masukan  
void Kosong ()  
{  
    fKode.setText ("");  
    fNama.setText ("");  
    fHarga.setText ("");  
    fJumlah.setText ("");  
    fBayar.setText ("");  
    fKembali.setText ("");  
    btnJual.setEnabled(true);  
    btnDelete.setEnabled(false);  
    fKode.requestFocus ();  
}
```

(CetakBarangMin06455.java)

- Capture Form :



The screenshot shows a Java Swing window titled "Cetak Laporan". Inside the window, there is a label "Stok Minim" followed by a text input field containing the number "48". Below the input field, there are two buttons: "Cetak" (blue with yellow text) and "Selesai" (light blue with black text).

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

- *Capture Output Cetak :*
create by Ade Reiki Karuna & A12.2020.06455

Laporan Barang

PT. Reiki Komputer

No.	Kode	Nama	Harga	Jumlah
1.	1002	Asus ROG Strix MK 2	16000000	40
2.	1003	Acer Aspire 3 A314-22	5225000	20
3.	1004	Lenovo IdeaPad Slim 3-14IML05	5759000	32
4.	1005	HP 245-G8 - Black	5225000	20
5.	1006	HP Gaming Victus 16-E0088AX	15000000	34

- *Source Code :*

```
import java.awt.Graphics;
import java.awt.print.PageFormat;
import java.awt.print.Printable;
import java.awt.print.PrinterException;
import java.awt.print.PrinterJob;
import javax.swing.JPanel;
import java.awt.*;
import java.awt.event.*;
import java.io.*;
import javax.swing.*;
import java.sql.*;
import javax.swing.table.DefaultTableModel;

public class CetakBarangMin06455 extends JFrame implements
ActionListener
{
    private JPanel      pBrg      = new JPanel();
    private JLabel      lMinim     = new JLabel ("Stok Minim  ");

    private JTextField  fKode      = new JTextField ();

    private JButton     btnAdd     = new JButton (),
    btnSelesai         = new JButton ();
```


Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
private ResultSet rs;
String[] header = {"Kode", "Nama", "Harga Beli"};

DefaultTableModel tabModel;
JTable tabel = new JTable();
JScrollPane skrTabel = new JScrollPane();
Integer isikanjml = 5;

public CetakBarangMin06455() {
    setPreferredSize(new Dimension(300,250));
    setTitle("Cetak Laporan");
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

    new BorderLayout();
    JDesktopPane pBrg = new JDesktopPane();
    add(pBrg, BorderLayout.CENTER);

    /* Mengatur letak objek Label Di container*/
    lMinim.setBounds (15, 20, 100, 25);

    /* Mengatur letak objek Text Di Container */
    fKode.setBounds (115, 20, 130, 25);

    /* Mengatur letak objek Button di Container */
    btnAdd.setBounds (50, 90, 85, 60);
    btnAdd.setLabel("Cetak");
    btnAdd.setBackground(Color.BLUE);
    btnAdd.setForeground(Color.getHSBColor(250,0,255));
    btnSelesai.setBounds (140, 90, 85, 60);
    btnSelesai.setLabel("Selesai");
    btnSelesai.setToolTipText("Mengakhiri Program");

    /* Objek Button di Non Aktifkan dan di aktifkan */
    btnAdd.setEnabled(true);
    btnSelesai.setEnabled(true);

    // Mengatur objek untuk dapat berinteraksi
    btnAdd.addActionListener (this);
    btnSelesai.addActionListener (this);
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
// Meletakkan seluruh kontrol pada objek panel */
pBrg.add (lMinim);
pBrg.add (fKode);
pBrg.add (btnAdd);
pBrg.add (btnSelesai);

/* Menambahkan objek panel (pBrg) ke container frame */
//getContentPane().add (pBrg);

/* Menampilkan frame ke layar monitor */
pack();
setLocationRelativeTo(null);
setVisible (true);

}

public static void main(String[] args) {
    new CetakBarangMin06455().setVisible(true);
}

/* Fungsi jika user melakukan action penekanan tombol Button */
public void actionPerformed (ActionEvent ae) {
    Object obj = ae.getSource();

    if (obj == btnAdd)
    {
        CetakOK();
    }

    if (obj == btnSelesai)
    {
        //System.exit(0);
        this.dispose();
    }
}

// Fungsi untuk menambahkan data ke tabel barang
void CetakOK()
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
{
    try {
        PrinterJob pjob = PrinterJob.getPrinterJob();
        pjob.setJobName("Graphics Demo Printout");
        pjob.setCopies(1);
        pjob.setPrintable(new Printable()
        {
            public int print(Graphics g1, PageFormat pf, int pageNum) {
                if (pageNum > 0) // we only print one page
                    return Printable.NO_SUCH_PAGE; // ie., end of job

                g1.drawString("create by Ade Reiki Karuna &
A12.2020.06455", 10, 10);
                //cetak data.....
            }
            try
            {

                //Koneksi ke table barang.....
                KoneksiDBMS CnPenjualan = new KoneksiDBMS();
                Connection con = CnPenjualan.BukaCn();
                Statement stat = con.createStatement();
                isikanjml = Integer.parseInt(fKode.getText());
                String strsql = "SELECT * FROM barang where jumlah <= '"
+ isikanjml + "'";

                ResultSet rs = stat.executeQuery(strsql);

                int i1, x1, y1;

                //Header
                g1.drawString("Laporan Barang", 50, 100);
                g1.drawString("PT. Reiki Komputer", 50, 130);
                g1.drawLine(50, 135, 550, 135);

                g1.drawString("No.", 50, 155);
                g1.drawString("Kode", 80, 155);
                g1.drawString("Nama", 150, 155);
                g1.drawString("Harga", 385, 155);
                g1.drawString("Jumlah", 480, 155);

                g1.drawLine(50, 165, 550, 165);
                x1 = 50;
                y1 = 190;
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        i1 = 1;

        //Cetak Record Barang.....
        while(rs.next())
        {
            g1.drawString(" " + i1 + ".", 50, y1);
            g1.drawString(rs.getString(1),80,y1);
            g1.drawString(rs.getString(2),150,y1);
            g1.drawString(rs.getString(3),385,y1);
            g1.drawString(rs.getString(5),480,y1);
            y1 += 14;
            i1++;
        }

        g1.drawLine(x1, y1, 550, y1);

        rs.close();
        con.close();

    }
    catch(Exception e)
    {
        System.out.println("Ada Kesalahan !");
    }

    return Printable.PAGE_EXISTS;
}
});

if (pjob.printDialog() == false) // choose printer
    return;
pjob.print();
} catch (PrinterException pe) {
    pe.printStackTrace();
}
}
```

(FMenu06455.java)

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

- *Capture Form :*



- *Source Code :*

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

// Program
Menu.....
class FMenu06455 extends JFrame
{
    //
    property/fields.....
    private JTextArea m_editArea = new JTextArea(20, 50);
    private JPanel JPMenu = new JPanel();

    private JPopupMenu m_popup = new JPopupMenu();
    private JLabel lNama = new JLabel ("Ade Reiki Karuna"),
    private JLabel lNim = new JLabel ("A12.2020.06455");

    //
    constructor.....
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
public FMenu06455()
{

    setPreferredSize(new Dimension(800,600));
    setTitle("MENU PENJUALAN");

    JDesktopPane JDPMenu = new JDesktopPane();
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    lNama.setBounds (15, 20, 400, 50);
    lNim.setBounds (15, 55, 200, 25);
    lNama.setFont(new Font("Arial", Font.BOLD, 32));
    lNama.setForeground(new Color(220, 10, 10));
    lNim.setFont(new Font("Verdana", Font.PLAIN, 15));
    lNim.setForeground(new Color(10, 10, 220));

    //sub menu (M0)
    Pegawai.....
        JMenuItem M01Pegawai = new JMenuItem("Pegawai");
        M01Pegawai.setMnemonic('P');
        M01Pegawai.setAccelerator(KeyStroke.getKeyStroke("control P"));

        JMenuItem M02Password = new JMenuItem("PaSsword");
        M02Password.setMnemonic('S');
        M02Password.setEnabled(false);
        M02Password.setAccelerator(KeyStroke.getKeyStroke("control S"));

        JMenuItem M03Quit = new JMenuItem("Quit");
        M03Quit.setMnemonic('Q');
        M03Quit.setAccelerator(KeyStroke.getKeyStroke("control Q"));

    //sub menu (M1)
    Barang.....
        JMenuItem M11Barang = new JMenuItem("Barang");
        M11Barang.setMnemonic('B');
        M11Barang.setAccelerator(KeyStroke.getKeyStroke("control B"));

        JMenuItem M12Stok = new JMenuItem("Stock Minim");
        M12Stok.setMnemonic('M');
        M12Stok.setEnabled(false);
    }
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        M12Stok.setAccelerator(KeyStroke.getKeyStroke("control
M"));

        //sub menu (M2)
Transaksi.....
        JMenuItem M21Pengadaan = new JMenuItem("PengaDaan");
        M21Pengadaan.setMnemonic('D');
        M21Pengadaan.setEnabled(false);
        M21Pengadaan.setAccelerator(KeyStroke.getKeyStroke("
control D"));

        JMenuItem M22Penjualan = new JMenuItem("PenJualan");
        M22Penjualan.setMnemonic('J');
        M22Penjualan.setEnabled(true);
        M22Penjualan.setAccelerator(KeyStroke.getKeyStroke("
control J"));

        JMenuItem M23Laporan = new JMenuItem("Laporan");
        M23Laporan.setMnemonic('L');
        M23Laporan.setEnabled(true);
        M23Laporan.setAccelerator(KeyStroke.getKeyStroke("contro
l L"));

        // (2) Build menubar, menus, and add
menuitems.....
        JMenuBar menubar = new JMenuBar(); // Create new menu
bar.....
        JMenu MenuPegawai = new JMenu("Pegawai"); // Create new
menu...

        MenuPegawai.setMnemonic('P');
        menubar.add(MenuPegawai);
        MenuPegawai.add(M01Pegawai);
        MenuPegawai.add(M02Password);
        MenuPegawai.addSeparator();
        MenuPegawai.add(M03Quit);

        JMenu MenuBarang = new JMenu("Barang");
        MenuBarang.setMnemonic('B');
        menubar.add(MenuBarang);
        MenuBarang.add(M11Barang);
        MenuBarang.add(M12Stok);

        JMenu MenuTransaksi = new JMenu("Transaksi");
        MenuTransaksi.setMnemonic('T');
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        menubar.add(MenuTransaksi);
        MenuTransaksi.add(M21Pengadaan);
        MenuTransaksi.add(M22Penjualan);
        MenuTransaksi.add(M23Laporan);

//Siap untuk menjalankan pilihan.....
M01Pegawai.addActionListener(new BukaPegawai());
M03Quit.addActionListener(new QuitAction());
M11Barang.addActionListener(new OpenAction());
M22Penjualan.addActionListener(new BukaJual());
M23Laporan.addActionListener(new Laporan());

// Add the (unused) text area to the content
pane.....
JPanel content = new JPanel();
content.setLayout(new BorderLayout());
content.add(m_editArea, BorderLayout.CENTER);

//... Add menu items to popup menu, add popup menu to text
area.
m_popup.add(new JMenuItem("Testing"));
m_editArea.setComponentPopupMenu(m_popup);

//... Set the JFrame's content pane and menu bar.
setContentPane(content);
setJMenuBar(menubar);

JDPMenu.add (lNama);
JDPMenu.add (lNim);
getContentPane().add
(JDPMenu).setBackground(Color.getHSBColor(180,100,200));

pack();
setLocationRelativeTo(null);
}

class OpenAction implements ActionListener {
    public void actionPerformed(ActionEvent e) {
        JOptionPane.showMessageDialog(FMenu06455.this, "Can't
Open.");
    }
}
```


Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
}

class BukaPegawai implements ActionListener {
    public void actionPerformed(ActionEvent e) {
        FPegawai06455 xPegawai = new FPegawai06455();
        xPegawai.setVisible(true);

        // dua perintah diatas "//"nya dihapus !

        //.....
        //panggil Form pegawai untuk menjalankan program pegawai
!
        //Perintah System.exit(0); pada FPegawai ganti dengan
perintah
        // this.dispose();
        // System.exit(0); menjadi this.dispose();
    }
}

class BukaBarang implements ActionListener {
    public void actionPerformed(ActionEvent e) {
        FBarang06455 xBarang = new FBarang06455();
        xBarang.setVisible(true);
    }
}

class BukaJual implements ActionListener {
    public void actionPerformed(ActionEvent e) {
        FJual06455 xJual = new FJual06455();
        xJual.setVisible(true);
    }
}

class Laporan implements ActionListener {
    public void actionPerformed(ActionEvent e) {
        //CetakBrng06284 xLaporan = new CetakBrng06284();
        //xLaporan.setVisible(true);
    }
}

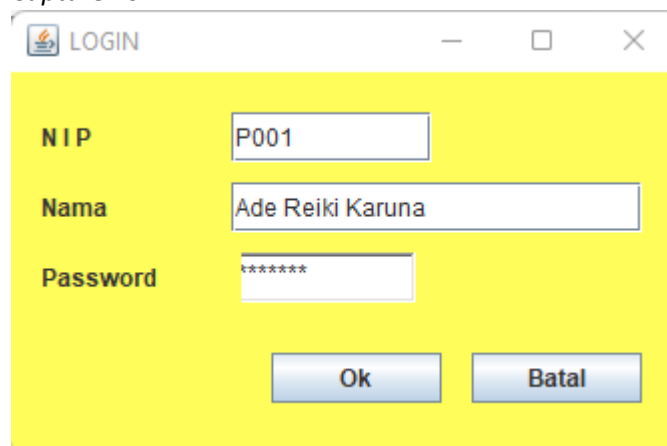
class QuitAction implements ActionListener {
    public void actionPerformed(ActionEvent e) {
        System.exit(0); // Terminate the program.....
    }
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
    }  
}  
  
// main method.....  
public static void main(String[] args) {  
    JFrame win = new FMenu06455();  
    win.setVisible(true);  
}  
}
```

(FLogin06455.java)

- Capture Form :



The screenshot shows a Java Swing window titled "LOGIN". The window has a yellow background. It contains three text input fields: "NIP" with the value "P001", "Nama" with the value "Ade Reiki Karuna", and "Password" with the value "*****". Below the fields are two buttons labeled "Ok" and "Batal".

Source Code :

```
import java.awt.*;  
  
import java.awt.event.*;  
import java.io.*;  
import javax.swing.*;  
import java.sql.*;  
  
public class FLogin06455 extends JFrame implements ActionListener,  
FocusListener
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
{
    private JPanel      pPgw      = new JPanel();
    private JLabel      lNip       = new JLabel ("N I P      "),
                      lNama      = new JLabel ("Nama      "),
                      lPassword   = new JLabel ("Password   "),
                      lcreate     = new JLabel ("nama");
    private JTextField  fNip       = new JTextField (),
                      fNama      = new JTextField ();
    private TextField   fPassword  = new TextField ();
    private JButton     btnOk      = new JButton (),
                      btnBatal    = new JButton ();

    public FLogin06455() {
        setPreferredSize(new Dimension(350,230));
        setTitle("LOGIN");
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        JDesktopPane dLogin = new JDesktopPane();

        /* Mengatur letak objek Label Di container*/
        lNip.setBounds (15, 20, 100, 25);
        lNama.setBounds (15, 55, 100, 25);
        lPassword.setBounds (15, 90, 100, 25);

        /* Mengatur letak objek Text Di Container */
        fNip.setBounds (110, 20, 100, 25);
        fNama.setBounds (110, 55, 205, 25);
        fPassword.setBounds (110, 90, 92, 25);
        fPassword.setEchoChar('*');

        fNip.setToolTipText("Isi Nip dengan Angka !");

        /* Mengatur letak objek Button di Container */
        btnOk.setBounds (130, 140, 85, 25);
        btnOk.setLabel("Ok");
        btnBatal.setBounds (230, 140, 85, 25);
        btnBatal.setLabel("Batal");
        btnBatal.setToolTipText("Mengakhiri Program");

        // Mengatur objek untuk dapat berinteraksi
        fNip.addFocusListener (this);
        btnOk.addActionListener (this);
    }
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        btnBatal.addActionListener (this);

        // Meletakkan seluruh kontrol pada objek panel */
        dLogin.add (lNip);
        dLogin.add (fNip);
        dLogin.add (lNama);
        dLogin.add (fNama);
        dLogin.add (lPassword);
        dLogin.add (fPassword);
        dLogin.add (btnOk);
        dLogin.add (btnBatal);

        /* Menambahkan objek panel (pPgr) ke container frame */
        getContentPane().add
(dLogin).setBackground(Color.getHSBColor(180,100,200));

        /* Menampilkan frame ke layar monitor */
        pack();
        setLocationRelativeTo(null);
        Kosong();
    }

    public static void main(String[] args) {
        new FLogin06455().setVisible(true);
    }

    /* Fungsi untuk memeriksa kursor saat meninggalkan objek
txtKode_Barang */
    public void focusGained (FocusEvent fe) { }
    public void focusLost (FocusEvent fe) {

        if (fNip.getText().equals ("")) { }
        else
        {
            int xcari = Cari();
            if (xcari == 1)
            {
                fPassword.requestFocus();
            }
            else
            {
                btnBatal.requestFocus();
            }
        }
    }
}
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
    }  
}  
  
/* Fungsi jika user melakukan action penekanan tombol Button */  
public void actionPerformed (ActionEvent ae) {  
    Object obj = ae.getSource();  
  
    if (obj == btnOk)  
    {  
        int xcari = CariPassword();  
        if (xcari == 1)  
        {  
            this.dispose();  
            FMenu06455 xmenu = new FMenu06455();  
            xmenu.setVisible(true);  
        }  
    }  
  
    if (obj == btnBatal)  
    {  
        System.exit(0);  
    }  
}  
  
// Fungsi untuk mencari Kode_Barang ke tabel barang  
int Cari(){  
    int x = 0;  
    try {  
  
        KoneksiDBMS CnPenjualan = new KoneksiDBMS();  
        Connection con = CnPenjualan.BukaCn();  
        Statement stat = con.createStatement();  
  
        String strsql = "SELECT * FROM pegawai WHERE nip ='" +  
fNip.getText () + "'";  
        ResultSet rs = stat.executeQuery(strsql);  
  
        if(rs.next())  
        {  
            fNama.setText (rs.getString ("nama"));  
            x = 1;  
        }  
    }  
    else
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        {
            // Jika Nip tidak ditemukan
            fNip.setText("");
            JOptionPane.showMessageDialog(this, "Data tidak
ditemukan !");
            fNip.requestFocus ();
        }
        rs.close();
        con.close();
    }
    catch(SQLException e)
    {
        JOptionPane.showMessageDialog(this, "Data kosong !");
    }
    return x;
}

// Fungsi untuk mencari Kode_Barang ke tabel barang
int CariPassword(){
    int x = 0;
    try {

        KoneksiDBMS CnPenjualan = new KoneksiDBMS();
        Connection con = CnPenjualan.BukaCn();
        Statement stat = con.createStatement();

        String strsql = "SELECT * FROM pegawai WHERE nip='" +
fNip.getText () + "' and password='" + fPassword.getText () + "'";
        ResultSet rs = stat.executeQuery(strsql);

        if(rs.next())
        {
            fNama.setText (rs.getString ("nama"));
            x = 1;
        }
        else
        {
            fPassword.setText("");
            fPassword.requestFocus();
            JOptionPane.showMessageDialog(this,"Password Salah
!");
        }
        rs.close();
    }
```

Nama : Ade Reiki Karuna
NIM : A12.2020.06455
Mata Kuliah : PBO
Tugas Akhir PBO

```
        con.close();
    }
    catch(SQLException e)
    {
    }
    return x;
}

// Fungsi untuk mengkosongkan Objek masukan
void Kosong ()
{
    fNip.setText ("");
    fNama.setText ("");
    fPassword.setText ("");
    fNip.requestFocus ();
}
}
```