

LAPORAN PROJEK UTS
PEMPROGRAMAN KOMPUTER 2



Disusun:

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Matakuliah : Pemrograman Komputer 2

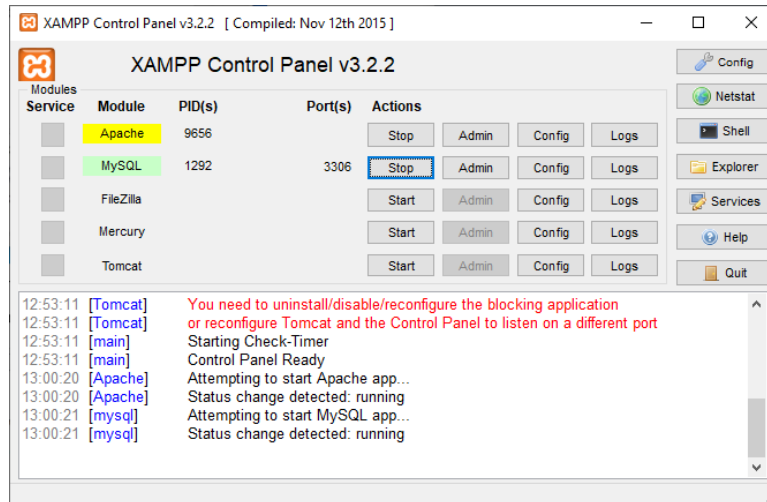
POLITEKNIK HARAPAN BERSAMA TEGAL

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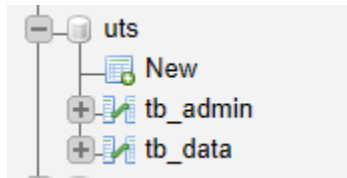
MANUAL BOOK PERUMAHAN

1. Buka Aplikasi Xampp

- Klik start pada Apache dan MySQL

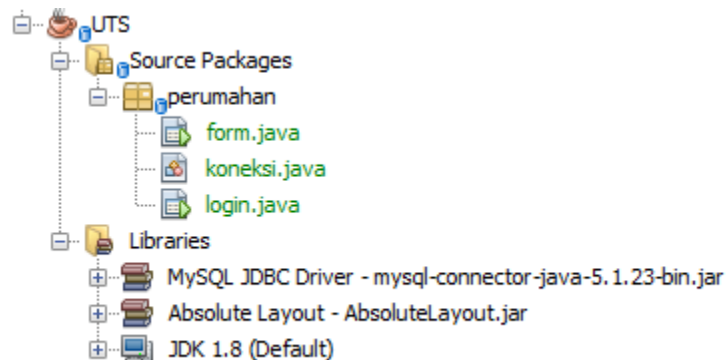


- Kemudian buat database untuk login dan form perumahan



2. Buka Aplikasi Neatbens

TAHAP 1 : Buat proyek dengan nama UTS



TAHAP 2 : MEMBUAT KELAS KONEKSIDB.

- a. Typ : *javaclass*
- b. Nama kelas : koneksi
- c. Kode program koneksi seperti yang dibawah ini

```
package perumahan;
```

```
import java.sql.Connection;
```

```
import java.sql.DriverManager;
```

```
import java.sql.SQLException;
```

```
/**
```

```
 *
```

```
 * @author ASUS
```

```
 */
```

```
public class koneksi {
```

```
    private static Connection MySQLConfig;
```

```
    public static Connection koneksiDB() throws SQLException{
```

```
        try{
```

```
            String url ="jdbc:mysql://localhost:3306/uts";
```

```
            String user = "root";
```

```
            String pass ="";
```

```
            DriverManager.registerDriver(new com.mysql.jdbc.Driver());
```

```
            MySQLConfig = DriverManager.getConnection(url, user,pass);
```

```
        }catch(Exception e){
```

```
            System.out.println("koneksi database gagal"+e.getMessage());
```

```
        }
```

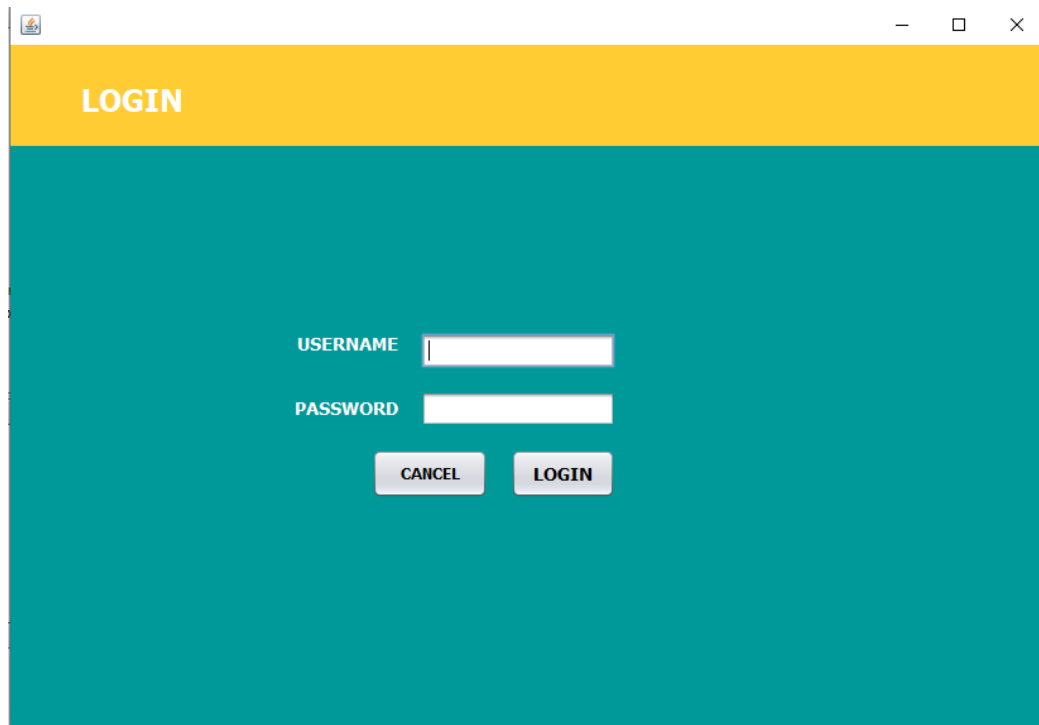
```
        return MySQLConfig;
```

```
    }
```

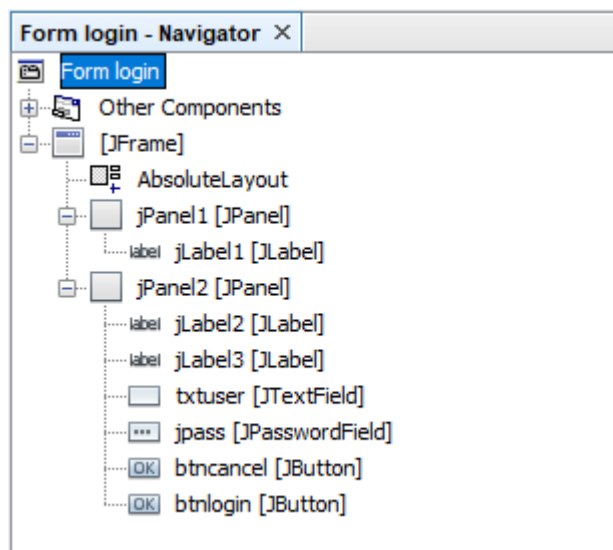
}

TAHAP 3 : MEMBUAT DESAIN LOGIN

- Type : *JFrame From*
- Nama kelas : login



The screenshot shows a Java Swing window titled "LOGIN". The window has a yellow header bar with the word "LOGIN" in white. The main area has a teal background. In the center, there are two labels: "USERNAME" and "PASSWORD", each followed by a white text input field. Below the input fields are two buttons: "CANCEL" and "LOGIN".



- c. Buat kode program pada login agar menjadi seperti dibawah ini

```
package perumahan;

import java.awt.Frame;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;

public class login extends javax.swing.JFrame {
    public login() {
        initComponents();
    }
    @SuppressWarnings("unchecked")
    Generated Code

    public static void main(String args[]) { ...31 lines }

    // Variables declaration - do not modify
    private javax.swing.JButton btncancel;
    private javax.swing.JButton btnlogin;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPasswordField jpass;
    private javax.swing.JTextField txtuser;
    // End of variables declaration
```

```

public void Login() {
    btnlogin.setEnabled(false);
    String user = txtuser.getText();
    char[] pass = jpass.getPassword();
    if (user.isEmpty()) {
        JOptionPane.showMessageDialog(this, "Username harus diisi");
        txtuser.requestFocus();
    } else if (pass.length == 0) {
        JOptionPane.showMessageDialog(this, "Password harus diisi");
        jpass.requestFocus();
    } else {
        String password = new String(pass);
        String md5_pass = md5(password);
        try {
            Connection c = koneksi.koneksiDB();
            Statement st = c.createStatement();
            String q = " SELECT * FROM db_login "
                + "WHERE username = '" + user + "' "
                + "AND password = '" + md5_pass + "'";
            ResultSet rs = st.executeQuery(q);
            int n = 0;
            while (rs.next()) {
                String u = rs.getString("username");
                String p = rs.getString("password");
                n++;
            }

            if (n == 0) {
                JOptionPane.showMessageDialog(this, "Username/password salah!");
                txtuser.requestFocus();
                btnlogin.setEnabled(true);
            } else {
                form z = new form();
                this.setVisible(false);
                z.setExtendedState(Frame.MAXIMIZED_BOTH);
                z.setVisible(true);
            }
        } catch (Exception e) {
            System.out.println(e.getMessage());
        }
    }
}

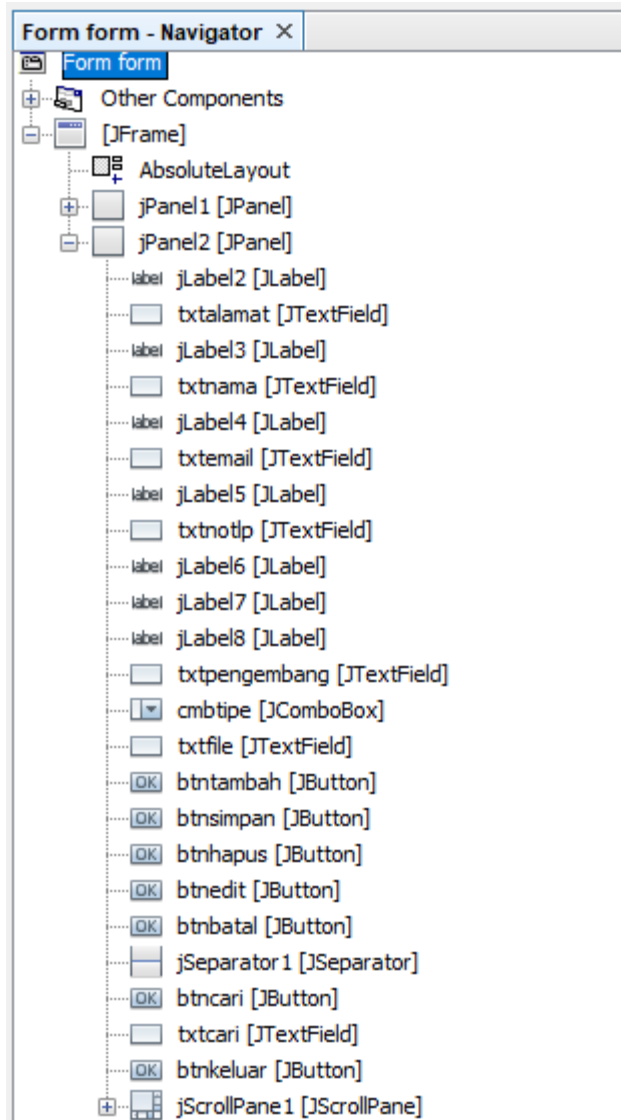
public static String md5(String data) {
    String hashed = "";
    try {
        MessageDigest md5 = MessageDigest.getInstance("MD5");
        md5.update(data.getBytes());
        byte[] byteData = md5.digest();
        StringBuilder sb = new StringBuilder();
        for (int i = 0; i < byteData.length; i++) {
            sb.append(Integer.toString((byteData[i] & 0xff)
                + 0x100, 16).substring(1));
        }
        hashed = sb.toString();
    } catch (NoSuchAlgorithmException e) {}
    return hashed;
}

```

TAHAP 4: MEMBUAT FORM DATA PERUMAHAN

- Type : *JFrame* from
- Nama kelas : form

No.	Id.	Nama Perum...	Alamat	NO. Telepho...	Email	Pengembang	Tipe Peruma...	File Brosur
1	1	Perumahan ...	Tegal	0823728	perumahan...	Yudi	tipe 21	brostur.pdf
2	2	ABCDE	Slawi	0887	email@email...	Santi	tipe 21	brostur.pdf



- c. Buat kodingan pada from agar menjadi seperti dibawah ini :

```
package perumahan;
```

```
import perumahan.koneksi;
```

```
import java.awt.HeadlessException;
```

```
import java.sql.Connection;
```

```
import java.sql.SQLException;
```

```
import javax.swing.JOptionPane;
```



```

import javax.swing.table.DefaultTableModel;

/**
 *
 * @author ASUS
 */
public class form extends javax.swing.JFrame {

    private void kosongkan_from() {
        txtnama.setEditable(true);
        txtnama.setText(null);
        txtalamat.setText(null);
        cmbtipe.setSelectedItem(this);
        txtnotlp.setText(null);
        txtemail.setText(null);
        txtpengembang.setText(null);
        txtfile.setText(null);
    }

    private void tampilkan_data() {
        DefaultTableModel model = new DefaultTableModel();
        model.addColumn("Nama Perumahan");
        model.addColumn("Alamat");
        model.addColumn("NO. Telephone");
        model.addColumn("Email");
        model.addColumn("Pengembang");
        model.addColumn("Tipe Perumahan");
        model.addColumn("File Brosur");
        String cari = txtcari.getText();
        try {
            int no = 1;

```

```

        String sql = "SELECT *FROM tb_data WHERE nama LIKE '%" + cari +
"%' ";

        java.sql.Connection conn = (Connection) koneksi.koneksiDB();
        java.sql.Statement stm = conn.createStatement();
        java.sql.ResultSet res = stm.executeQuery(sql);
        while (res.next()) {
            model.addRow(new Object[]{no++, res.getString(1),
                res.getString(2), res.getString(3), res.getString(4), res.getString(5),
res.getString(6),
                res.getString(7)});
        }
        jTable.setModel(model);
    } catch (Exception e) {
        System.out.println("Error : " + e.getMessage());
    }
}

/**
 * Creates new form form
 */
public form() {
    initComponents();
    tampilkan_data();
    kosongkan_from();
}

```

TAHAP 5: MENAMBAH EVENT

- a. Buks kelas form kemudian buka tab desain
- b. Double klik pada tombol “tambah”,kemudian ubah program menjadi

```

private void btntambahActionPerformed(java.awt.event.ActionEvent evt) {
    try {
        String sql = "INSERT INTO tb_data VALUES ('" + txtnama.getText() + "','" +
            + txtalamat.getText() + "','" +
            + txtnotlp.getText() + "','" + txtemail.getText() + "','" +
            + txtpengembang.getText() + "','" +
            + cmbtipe.getSelectedItem() + "','" + txtfile.getText() + "')";
        java.sql.Connection conn = (Connection) koneksi.koneksiDB();
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);
        System.out.println(sql);
        pstmt.execute();
        JOptionPane.showMessageDialog(null, "Proses simpan Data berhasil");
        tampilkan_data();
        kosongkan_from();
    } catch (HeadlessException | SQLException e) {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    txtnama.setFocusable(true);
}

```

c. Double klik pada tombol “simpan”, kemudian ubah program menjadi

```

private void btnsimpanActionPerformed(java.awt.event.ActionEvent evt) {
    try {
        String sql = "INSERT INTO tb_data VALUES ('" + txtnama.getText() + "','" +
            + txtalamat.getText() + "','" +
            + txtnotlp.getText() + "','" + txtemail.getText() + "','" +
            + txtpengembang.getText() + "','" +
            + cmbtipe.getSelectedItem() + "','" + txtfile.getText() + "')";
        java.sql.Connection conn = (Connection) koneksi.koneksiDB();
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);
        pstmt.execute();
        JOptionPane.showMessageDialog(null, "Proses simpan Data berhasil");
        tampilkan_data();
        kosongkan_from();
    } catch (HeadlessException | SQLException e) {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
}

```

- d. Double klik pada tombol “edit” ,kemudian ubah program menjadi

```
private void btneditActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try {  
        String sql = "INSERT INTO tb_data VALUES ('" + txtnama.getText() + "','" + txtalamat.getText()  
            + "','" +  
            + txtnotlp.getText() + "','" + txtemail.getText() + "','" +  
            + txtpengembang.getText() + "','" +  
            + cmbtipe.getSelectedItem() + "','" + txtfile.getText() + "')";  
        java.sql.Connection conn = (Connection) koneksi.koneksiDB();  
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);  
        pstmt.execute();  
        JOptionPane.showMessageDialog(null, "Edit Data Berhasil");  
    } catch (HeadlessException | SQLException e) {  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    tampilkan_data();  
    kosongkan_from();  
}
```

- e. Double klik pada tombol ”hapus”, kemudian ubah program menjadi

```
private void btnhapusActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try {  
        String sql = "DELETE FROM tb_data WHERE kode = '" + txtnama.getText() + "'";  
        java.sql.Connection conn = (Connection) koneksi.koneksiDB();  
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);  
        pstmt.execute();  
        JOptionPane.showMessageDialog(null, "Hapus Data Berhasil");  
    } catch (HeadlessException | SQLException e) {  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    tampilkan_data();  
    kosongkan_from();  
}
```

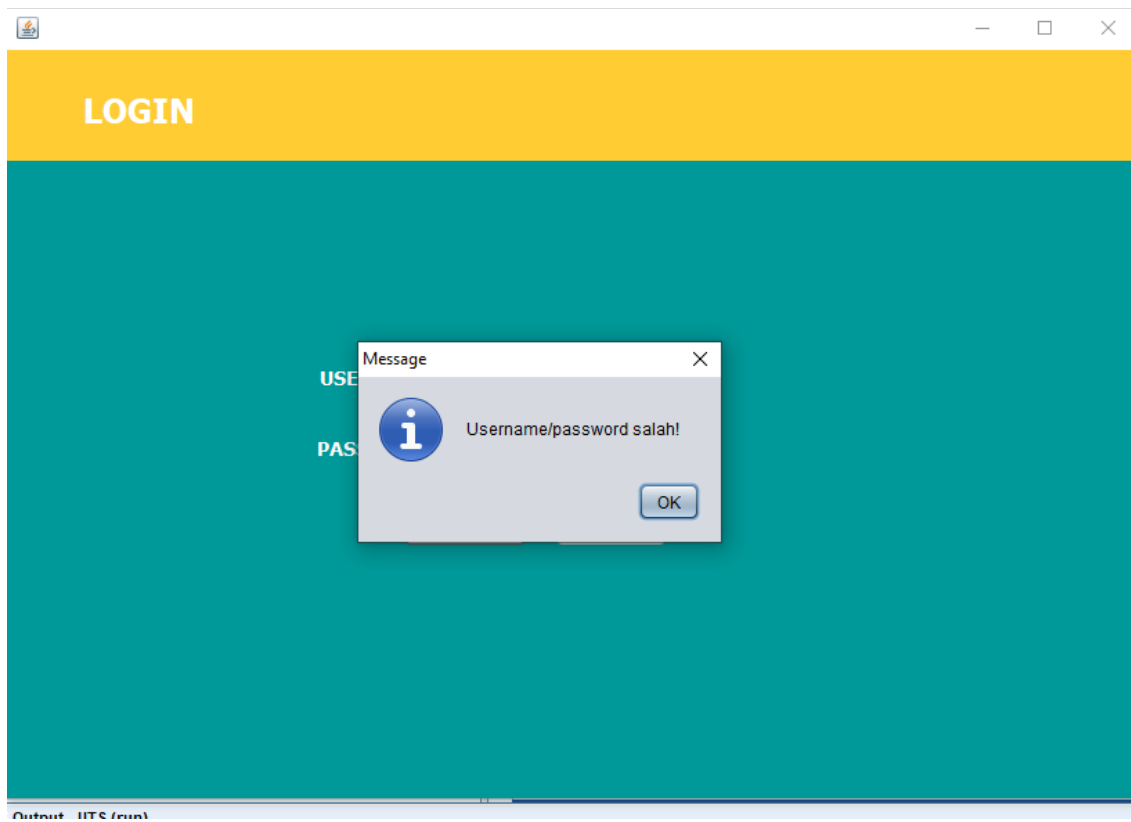
- f. Double klik pada tombol “batal” ,kemudian ubah program menjadi

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

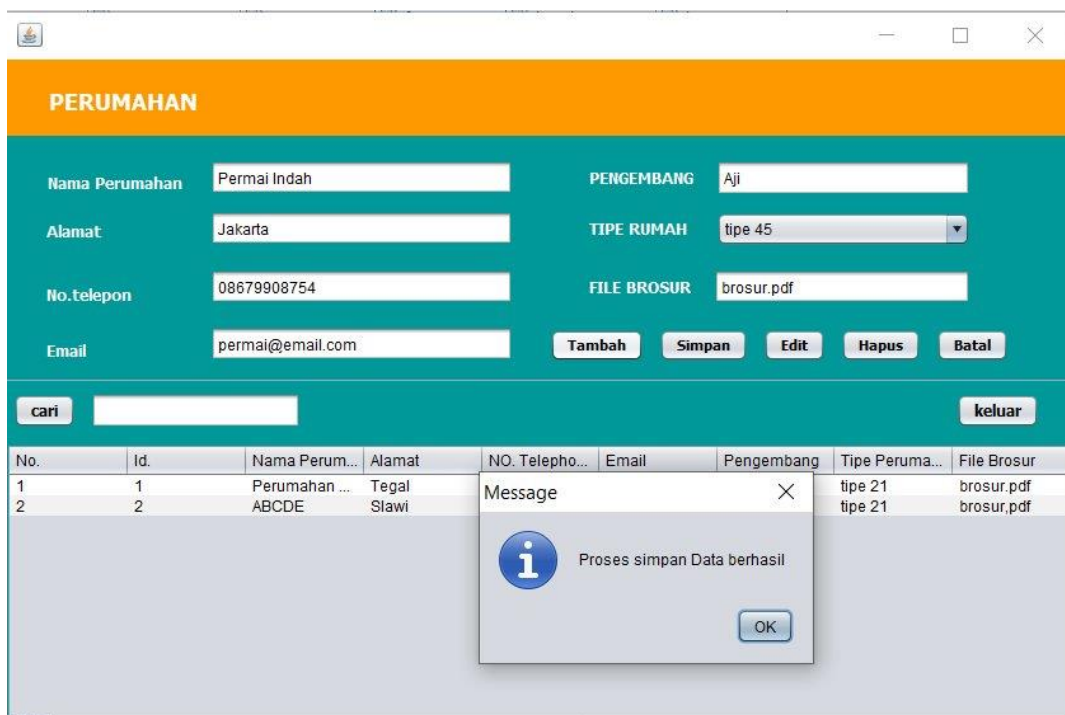
- g. Double klik pada tombol “keluar”, kemudian ubah kode program menjadi

```
private void btnkeluarActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    System.exit(0);  
}
```

HASIL SETELAH DI RUN:



- Akan muncul pemberitahuan ketika anda salah memasukkan username atau password



PERUMAHAN

Nama Perumahan

PENGEMBANG

Alamat

TIPE RUMAH

tipe 45

No.telepon

FILE BROSUR

Email

Tambah

Simpan

Edit

Hapus

Batal

cari

keluar

No.	Id.	Nama Perum...	Alamat	NO. Telepho...	Email	Pengembang	Tipe Peruma...	File Brosur
1	1	Perumahan ...	Tegal	0823728	perumahan...	Yudi	tipe 21	brosur.pdf
2	2	ABCDE	Slawi	0887	email@email...	Santi	tipe 21	brosur.pdf
3	7	Permai Indah	Jakarta	08679908754	permai@em...	Aji	tipe 45	brosur.pdf

Hapus data

PERUMAHAN

Nama Perumahan

ABCDE

PENGEMBANG

Santi

Alamat

Slawi

TIPE RUMAH

tipe 21

No.telepon

0887

FILE BROSUR

brosur.pdf

Email

email@email.com

Tambah

Simpan

Edit

Hapus

Batal

cari

keluar

No.	Id.	Nama Perum...	Alamat	NO. Telepho...	Email	Pengembang	Tipe Peruma...	File Brosur
1	1	Perumahan ...	Tegal				tipe 21	brosur.pdf
2	2	ABCDE	Slawi				tipe 21	brosur.pdf
3	7	Permai Indah	Jakarta				tipe 45	brosur.pdf

Message

Hapus Data Berhasil

OK

PERUMAHAN

Nama Perumahan

PENGEMBANG

Alamat

TIPE RUMAH

tipe 21



No.telepon

FILE BROSUR

Email

Tambah

Simpan

Edit

Hapus

Batal

cari

keluar

No.	Id.	Nama Perum...	Alamat	NO. Telepho...	Email	Pengembang	Tipe Peruma...	File Brosur
1	1	Perumahan ...	Tegal	0823728	perumahan...	Yudi	tipe 21	brosur.pdf
2	7	Permai Indah	Jakarta	08679908754	permai@em...	Aji	tipe 45	brosur.pdf