

LAPORAN PRAKTIKUM
PEMROGRAMAN BERBASIS OBJEK
PERTEMUAN 10



Disusun oleh :

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PROGRAM STUDI S1 TEKNIK INFORMATIKA
FAKULTAS INFORMATIKA
INSTITUT TEKNOLOGI TELKOM PURWOKERTO
2024

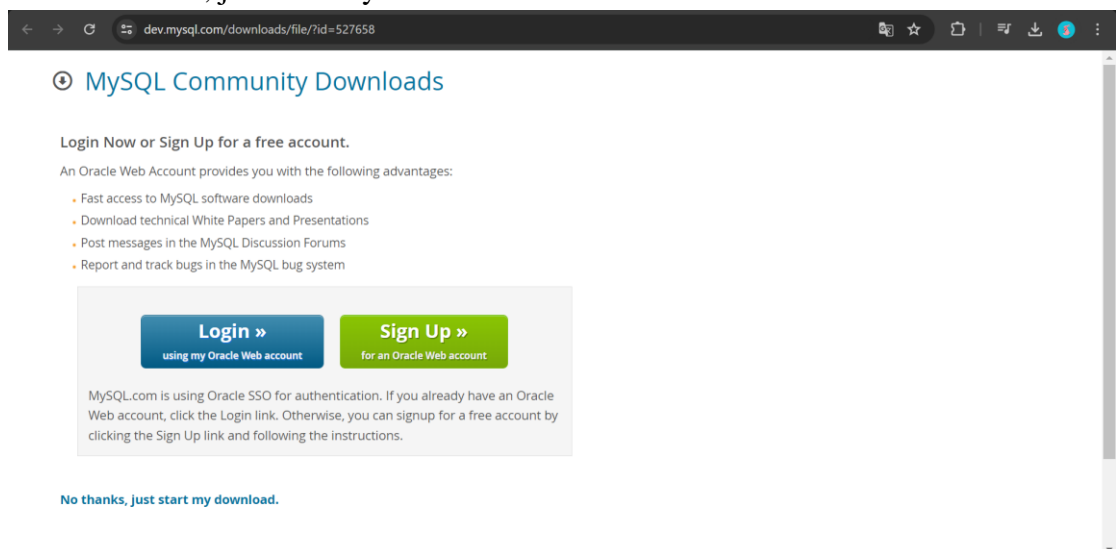
MODUL 09

JAVA DATABASE

Untuk membuat aplikasi java yang terhubung dengan database kita memerlukan library baru agar program java yang telah kita buat dapat terhubung dengan database. Pada aplikasi NetBeans diperlukan library `mysql_connector` yang dapat diunduh dengan Langkah-langkah sebagai berikut:

A. Mengunduh MySQL Connector

1. Buka browser pencarian pada laptop masing-masing
2. Ketikkan “dev mysql” atau dapat klik link berikut: <https://dev.mysql.com/downloads/file/?id=527658> dan kita akan di arahkan ke MySQL Community Download.
3. Klik No thanks, just start my download.

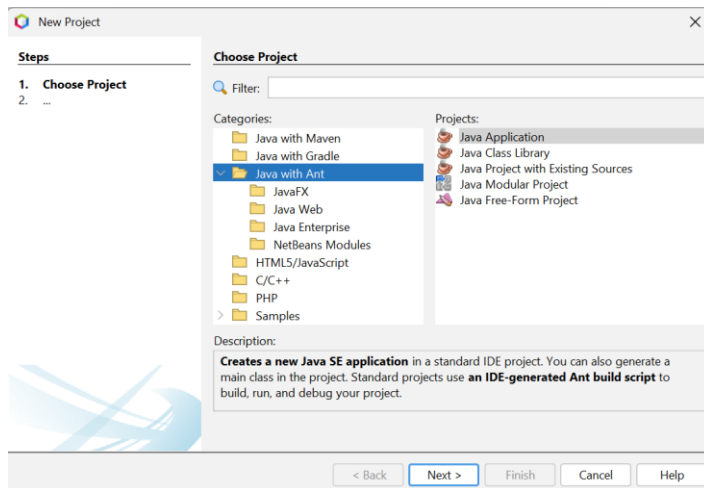


4. Setelah connector berhasil di download, pindahkan file ke lokasi yang mudah dicari dan diingat, kemudian ekstrak file zipnya.

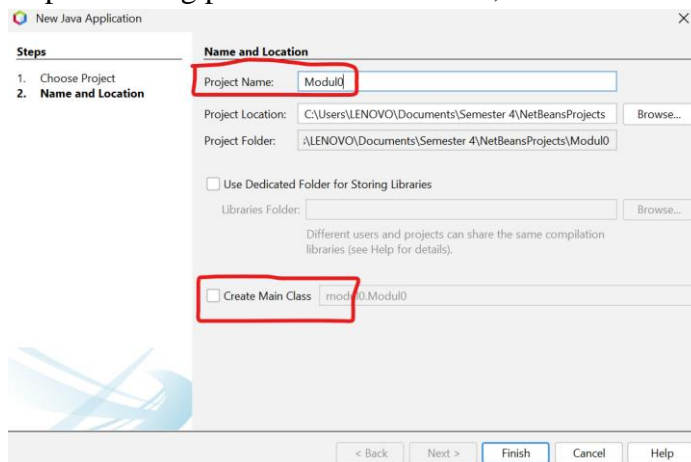
B. Membuat Proyek Baru

Setelah mengunduh connector mysql, kita dapat membuat proyek baru yang akan kita hubungkan dengan database. Lakukan Langkah-langkah berikut untuk dapat membuat aplikasi java sederhana yang terhubung dengan database

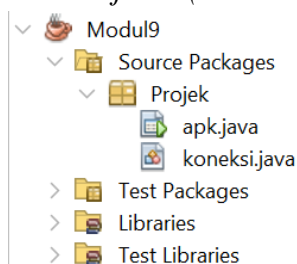
1. Buka Netbeans pada laptop/komputer/PC masing-masing.
2. Buat project baru dengan kategori Java with Ant Project Java Application



3. Namai Projek sesuai dengan kebutuhan kalian, disini aku menamainya Modul9
Hapus centang pada create main class, dan atur lokasi file yang akan dibuat



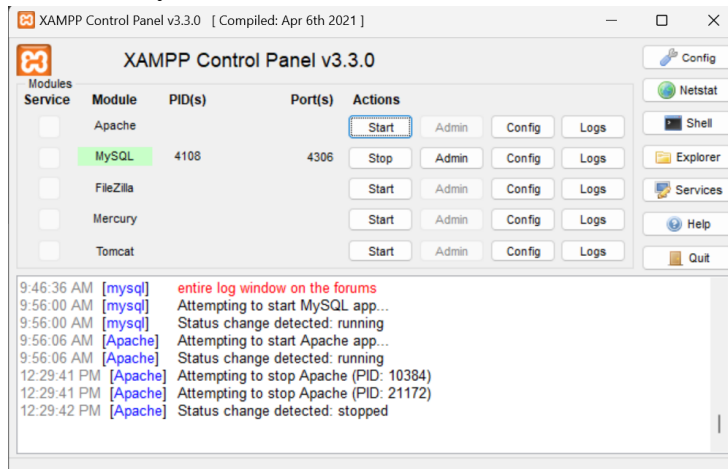
4. Klik Finish
5. Buatlah Packages baru sesuai kebutuhan, disini aku beri nama package Projek,
dan Buatlah JFrame Form serta java class kurang lebih seperti dibawah ini
Ctt: Projek > (klik kanan)> new > JFrame Form > beri nama apk > finish.



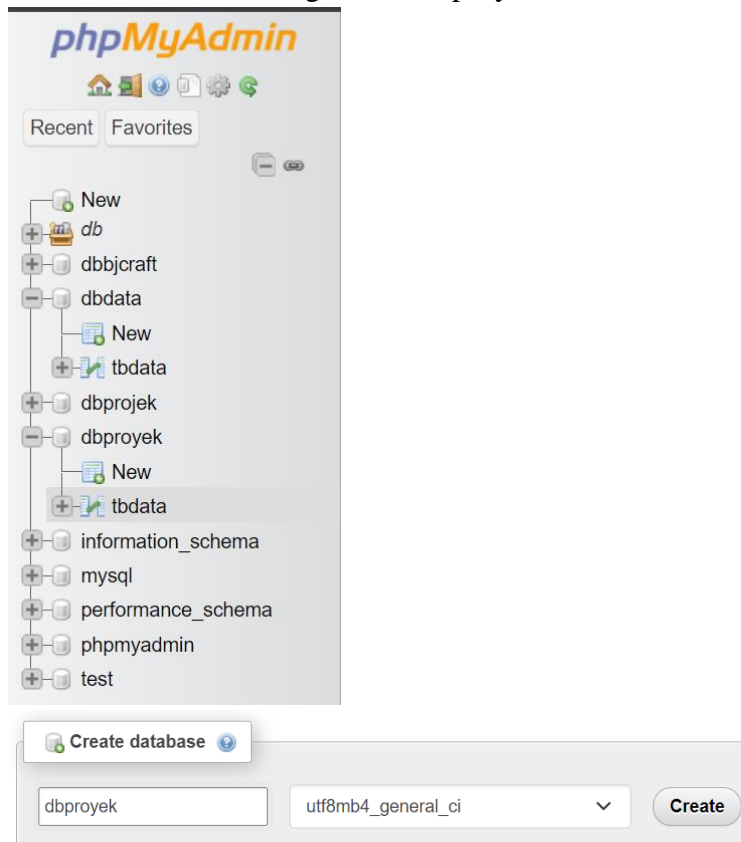
C. Membuat Database

1. Buka aplikasi XAMPP

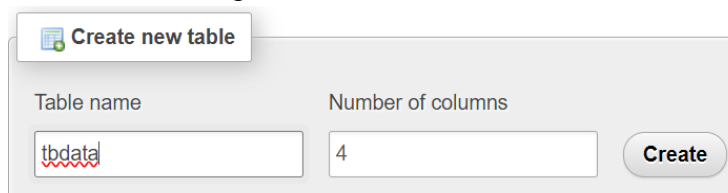
2. Jalankan MySQL



3. Pergi ke localhost pada laptop. Pada windows dapat ketikkan <http://localhost/phpmyadmin/> pada browser pencarian (contoh: Chrome, dll)
4. Buat database baru dengan nama dbprojek



5. Buatlah tabel dengan nama tbdata



6. Ketentuan tabel

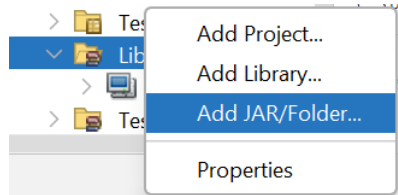
Name	Type	Length/Values	Default	Collation	Attributes	Null	Index
no	INT		None			<input type="checkbox"/>	PRIMARY
nama	VARCHAR	30	None			<input type="checkbox"/>	---
alamat	VARCHAR	30	None			<input type="checkbox"/>	---
hp	INT		None			<input type="checkbox"/>	---

7. Klik **save**.

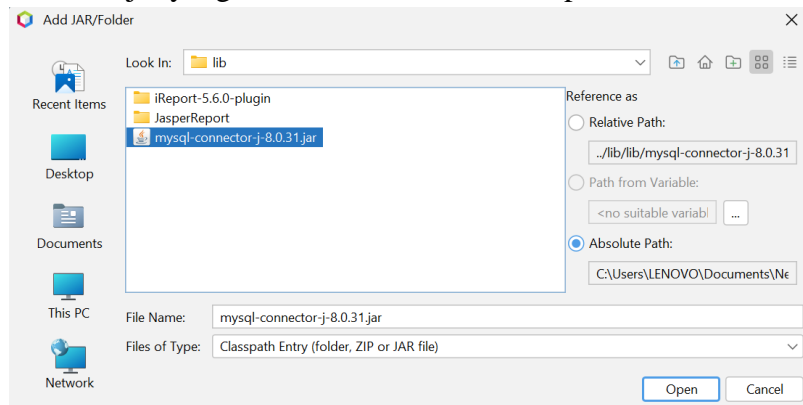
D. Menambahkan file connector ke Libraries projek

Tambahkan file jar mysql connector pada Libraries, caranya:

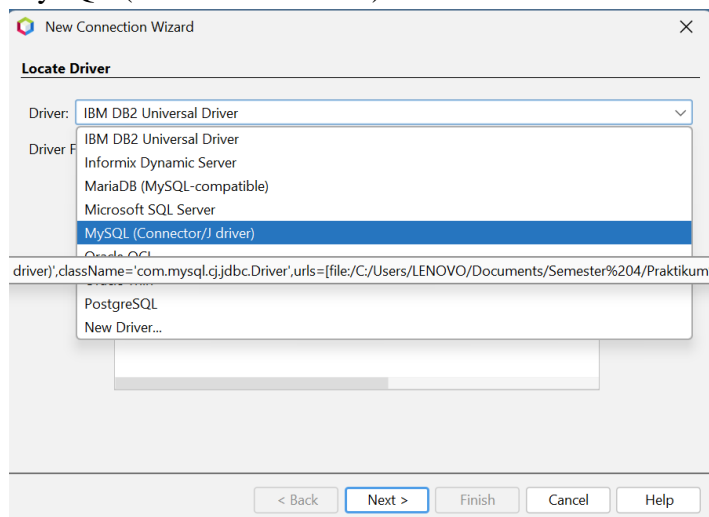
- Klik kanan pada Libraries, dan pilih add JAR/Folder



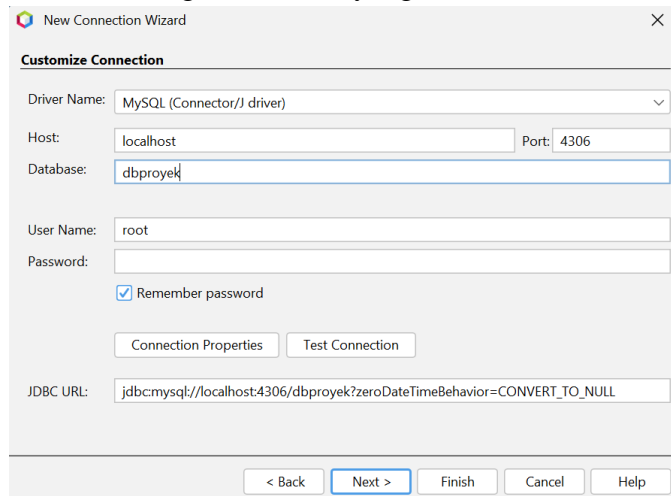
- Pilih file jar yang telah kita buat dan klik Open



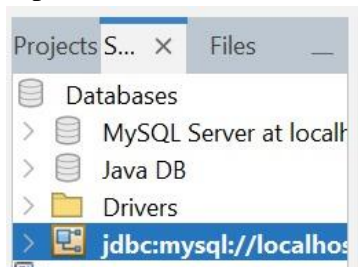
- Pada bagian service > database > klik kanan > klik new connection > pilih MySQL (Connector/J driver) > next



- Isi sesuai dengan database yang telah dibuat



- Jika file library berhasil ditambahkan maka tampilannya akan berubah seperti ini



E. Menghubungkan projek Netbeans dengan database local

- Buka file konektor.java yang telah dibuat
- Masukkan source code berikut

```
package Projek;

import java.sql.Connection;
import java.sql.DriverManager;
import javax.swing.JOptionPane;

public class koneksi {
    private String url=
"jdbc:mysql://localhost:4306/dbproyek";// sesuaikan dengan
xampp perangkat
    private String username_xampp = "root";
    private String password_xampp = "";
    private Connection con;

    public void connect(){
        try{
            con = DriverManager.getConnection(url,
username_xampp, password_xampp);
            System.err. println("koneksi berhasil");
        } catch (Exception e){
```

```

JOptionPane.showMessageDialog(null,
e.getMessage());
    }
}
public Connection getCon(){
    if (con == null) {
        connect();
    }
    return con;
}
}

```

- Penamaan `jdbc:mysql://localhost:4306/dbproyek`"; disesuaikan dengan port dan nama database perangkat masing-masing.

F. Pembuatan Aplikasi Java

1. Pembuatan Desain GUI

No	Text	Variable Name	Swing Controls Pallete
1	DATA MAHASISWA	jLabel1	Label
2	No	jLabel2	Label
3		text_no	Text Field
4	Alamat	jLabel3	Label
5		text_alamat	Text Field
6	Nama	jLabel4	Label
7		text_nama	Text Field
8	Telepon/HP	jLabel5	Label
9		text_hp	Text Field
10	Simpan	bt_simpan	Button
11	Update	bt_update	Button
12	Delete	bt_delete	Button
13		text_cari	Text Field
14	Cari	bt_cari	Button
15		tabel_apk	Table

2. Source Code

```
package Projek;

import javax.swing.table.DefaultTableModel;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.HashSet;
import javax.swing.JOptionPane;
import javax.swing.text.html.HTML;
import java.sql.*;

public class apk extends javax.swing.JFrame {
    private DefaultTableModel model = null;
    private PreparedStatement stat;
    private ResultSet rs;
    koneksi k = new koneksi();
    /**
     * Creates new form apk
     */
    public apk() {
        initComponents();
        k.connect();
        refreshTable();
    }

    class tugasapk extends apk{
        int no, hp;
        String nama, alamat;

        //konstruktor
        public tugasapk() {
            this.nama = text_nama.getText();
            this.alamat = text_alamat.getText();
            this.hp = Integer.parseInt(text_hp.getText());
        }
    }

    public void refreshTable(){
        model = new DefaultTableModel();
        model.addColumn("NO");
        model.addColumn("Nama");
        model.addColumn("Alamat");
        model.addColumn("Telepon/HP");
        tabel_apk.setModel(model);
        try {
            this.stat = k.getCon().prepareStatement("select
* from tbdata");
            this.rs = this.stat.executeQuery(); //mengambil
data dari tabel GUI

```



```

        while (rs.next()) {
            Object[] data = {
                rs.getInt("no"),
                rs.getString("nama"),
                rs.getString("alamat"),
                rs.getInt("hp")
            };
            model.addRow(data);
        }
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null,
e.getMessage());
    }
    text_no.setText("");
    text_nama.setText("");
    text_alamat.setText("");
    text_hp.setText("");
}

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

    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    text_no = new javax.swing.JTextField();
    text_nama = new javax.swing.JTextField();
    text_alamat = new javax.swing.JTextField();
    text_hp = new javax.swing.JTextField();
    bt_simpan = new javax.swing.JButton();
    bt_delete = new javax.swing.JButton();
    bt_update = new javax.swing.JButton();
    text_cari = new javax.swing.JTextField();
    bt_cari = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    tabel_apk = new javax.swing.JTable();

```

```
        setDefaultCloseOperation(javax.swing.WindowConstants
.EXIT_ON_CLOSE);

        jLabel1.setText("jLabel1");

        jLabel2.setText("jLabel2");

        jLabel3.setText("jLabel3");

        jLabel4.setText("jLabel4");

        jLabel5.setText("jLabel5");

        text_alamat.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                text_alamatActionPerformed(evt);
            }
        });

        bt_simpan.setText("Simpan");
        bt_simpan.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                bt_simpanActionPerformed(evt);
            }
        });

        bt_delete.setText("Delete");
        bt_delete.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                bt_deleteActionPerformed(evt);
            }
        });

        bt_update.setText("Update");
        bt_update.addActionListener(new
java.awt.event.ActionListener() {
            public void
actionPerformed(java.awt.event.ActionEvent evt) {
                bt_updateActionPerformed(evt);
            }
        });

        bt_cari.setText("Cari");
```

```

        bt_cari.addActionListener(new
java.awt.event.ActionListener() {
    public void
actionPerformed(java.awt.event.ActionEvent evt) {
        bt_cariActionPerformed(evt);
    }
});

        tabel_apk.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 [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
        tabel_apk.addMouseListener(new
java.awt.event.MouseAdapter() {
    public void
mouseClicked(java.awt.event.MouseEvent evt) {
        tabel_apkMouseClicked(evt);
    }
});
        jScrollPane1.setViewportViewView(tabel_apk);

        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.
Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGroup(layout.createParallelGroup(javax.s
wing.GroupLayout.Alignment.LEADING)
                        .addGroup(layout.createSequentialGroup()
                            .addGap(174, 174, 174)
                            .addComponent(jLabel1))
                        .addGroup(layout.createSequentialGroup()
                            .addGap(32, 32, 32)
                            .addGroup(layout.createParallelGroup
(javax.swing.GroupLayout.Alignment.LEADING)
                                .addGroup(layout.createSequentia
lGroup()
                                    .addGroup(layout.createParal
lelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

                                .addGroup(layout.createS
sequentialGroup()
                                .addComponent(jLabel
3)
                                .addPreferredGap(jav
ax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                                .addComponent(text_n
ama, javax.swing.GroupLayout.PREFERRED_SIZE, 71,
javax.swing.GroupLayout.PREFERRED_SIZE))
                                .addGroup(layout.createS
sequentialGroup()
                                .addComponent(jLabel
2)
                                .addPreferredGap(jav
ax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                                .addComponent(text_n
o, javax.swing.GroupLayout.PREFERRED_SIZE, 71,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                                .addGap(60, 60, 60)
                                .addGroup(layout.createParal
lGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addGroup(layout.createS
sequentialGroup()
                                .addComponent(jLabel
5)
                                .addGap(18, 18, 18)
                                .addComponent(text_h
p, javax.swing.GroupLayout.PREFERRED_SIZE, 71,
javax.swing.GroupLayout.PREFERRED_SIZE))
                                .addGroup(layout.createS
sequentialGroup()
                                .addComponent(jLabel
4)
                                .addGap(18, 18, 18)
                                .addComponent(text_a
lamat, javax.swing.GroupLayout.PREFERRED_SIZE, 71,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                                .addGroup(layout.createSequentia
lGroup()
                                .addGroup(layout.createParal
lGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                                .addComponent(text_cari,
javax.swing.GroupLayout.PREFERRED_SIZE, 71,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(bt_simpan)
)
                                .addPreferredGap(javax.swing
.LayoutStyle.ComponentPlacement.UNRELATED)

```

```

                                .addGroup(layout.createParallelGroup(
javax.swing.GroupLayout.Alignment.LEADING)
                                .addGroup(layout.createSequentialGroup(
                                .addComponent(bt_upd
ate)
                                .addGap(13, 13, 13)
                                .addComponent(bt_del
ete))
                                .addComponent(bt_cari)))
                                .addGroup(layout.createSequentialGroup(
                                .addGap(1, 1, 1)
                                .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 375,
javax.swing.GroupLayout.PREFERRED_SIZE))))))
                                .addContainerGap(33, Short.MAX_VALUE))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup(
            .addGap(19, 19, 19)
            .addComponent(jLabel1)
            .addGap(18, 18, 18)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(jLabel4)
                .addComponent(text_no,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(text_alamat,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup(
                    .addGap(18, 18, 18)
                    .addGroup(layout.createParallelGroup(
javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel3)
                        .addComponent(jLabel5)
                        .addComponent(text_hp,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))))

```

```

        .addGroup(layout.createSequentialGroup()
            .addGap(7, 7, 7)
            .addComponent(text_nama,
                javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addPreferredGap(javax.swing.LayoutStyle.Com
            ponentPlacement.UNRELATED)
        .addGroup(layout.createParallelGroup(javax.s
            wing.GroupLayout.Alignment.LEADING)
            .addComponent(bt_delete)
            .addGroup(layout.createParallelGroup(jav
                ax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(bt_simpan)
                .addComponent(bt_update)))
        .addPreferredGap(javax.swing.LayoutStyle.Com
            ponentPlacement.RELATED)
        .addGroup(layout.createParallelGroup(javax.s
            wing.GroupLayout.Alignment.BASELINE)
            .addComponent(text_cari,
                javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(bt_cari))
        .addGap(18, 18, 18)
        .addComponent(jScrollPane1,
            javax.swing.GroupLayout.PREFERRED_SIZE, 392,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEF
            AULT_SIZE, Short.MAX_VALUE))
    );

    pack();
} // </editor-fold> // GEN-END: initComponents

private void
text_alamatActionPerformed(java.awt.event.ActionEvent evt)
{ // GEN-FIRST:event_text_alamatActionPerformed
    // TODO add your handling code here:
} // GEN-LAST:event_text_alamatActionPerformed

private void
bt_simpanActionPerformed(java.awt.event.ActionEvent evt)
{ // GEN-FIRST:event_bt_simpanActionPerformed
    // TODO add your handling code here:
    try {
        tugasapk a = new tugasapk();
        this.stat = k.getCon().prepareStatement("insert
            into tbdata values(?,?,?,?)");
    }
}

```

```

        stat.setInt(1, 0); //input auto increment
id_buket
        stat.setString(2, a.nama);
        stat.setString(3, a.alamat);
        stat.setInt(4, a.hp);
        stat.executeUpdate(); //memperbaharui database
        refreshTable();
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null,
e.getMessage());
    }
} //GEN-LAST:event_bt_simpanActionPerformed

private void
bt_updateActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_bt_updateActionPerformed
    // TODO add your handling code here:
    try {
        tugasapk a = new tugasapk();
        this.stat = k.getCon().prepareStatement("update
tbdata set nama=?, "
            + "alamat=?, hp=? where no=? ");
        stat.setString(1, a.nama);
        stat.setString(2, a.alamat);
        stat.setInt(3, a.hp);
        stat.setInt(4,
Integer.parseInt(text_no.getText()));
        stat.executeUpdate();
        refreshTable();
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null,
e.getMessage());
    }
} //GEN-LAST:event_bt_updateActionPerformed

private void
bt_deleteActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_bt_deleteActionPerformed
    // TODO add your handling code here:
    try {
        this.stat = k.getCon().prepareStatement("delete
from tbdata where no=?");
        stat.setInt(1,
Integer.parseInt(text_no.getText()));
        stat.executeUpdate();
        refreshTable();
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null,
e.getMessage());
    }
}

```

```

    }
    }//GEN-LAST:event_bt_deleteActionPerformed

    private void
tabel_apkMouseClicked(java.awt.event.MouseEvent evt) {//GEN-
FIRST:event_tabel_apkMouseClicked
    // TODO add your handling code here:
    text_no.setText(model.getValueAt(tabel_apk.getSelectedRow(), 0).toString());
    text_nama.setText(model.getValueAt(tabel_apk.getSelectedRow(), 1).toString());
    text_alamat.setText(model.getValueAt(tabel_apk.getSelectedRow(), 2).toString());
    text_hp.setText(model.getValueAt(tabel_apk.getSelectedRow(), 3).toString());
    }//GEN-LAST:event_tabel_apkMouseClicked

    private void
bt_cariActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_bt_cariActionPerformed
    // TODO add your handling code here:
    try {
        java.sql.Connection conn = k.getCon();
        String sql = "select * from tbdata where no=? or
nama=?";
        java.sql.PreparedStatement pst =
conn.prepareStatement(sql);
        pst.setString(1, text_cari.getText());
        pst.setString(2, text_cari.getText());
        ResultSet rs = pst.executeQuery();
        if (rs.next()) {
            text_no.setText(rs.getString("no"));
            text_nama.setText(rs.getString("nama"));
            text_alamat.setText(rs.getString("alamat"));
            text_hp.setText(rs.getString("hp"));
            JOptionPane.showMessageDialog(null, "Data: "
+ text_cari.getText() + " ditemukan, Apakah Anda Ingin
Mengedit atau Menghapus?");
        } else {
            JOptionPane.showMessageDialog(null, "Data: "
+ text_cari.getText() + " Tidak ditemukan.");
        }
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null,
e.getMessage());
    }
    text_cari.requestFocus();
    }//GEN-LAST:event_bt_cariActionPerformed

```



```

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look
and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not
available, stay with the default look and feel.
    * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfe
el/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info
: javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(inf
o.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(apk.class.get
Name()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(apk.class.get
Name()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(apk.class.get
Name()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException
ex) {
        java.util.logging.Logger.getLogger(apk.class.get
Name()).log(java.util.logging.Level.SEVERE, null, ex);
    }
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new apk().setVisible(true);
    }
});
}

// Variables declaration - do not modify//GEN-
BEGIN:variables
private javax.swing.JButton bt_cari;

```

```

private javax.swing.JButton bt_delete;
private javax.swing.JButton bt_simpan;
private javax.swing.JButton bt_update;
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.JScrollPane jScrollPane1;
private javax.swing.JTable tabel_apk;
private javax.swing.JTextField text_alamat;
private javax.swing.JTextField text_cari;
private javax.swing.JTextField text_hp;
private javax.swing.JTextField text_nama;
private javax.swing.JTextField text_no;
// End of variables declaration//GEN-END:variables
}

```

- bt_simpan > event > actions performed

```

private void
bt_simpanActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_bt_simpanActionPerformed
    // TODO add your handling code here:
    try {
        tugasapk a = new tugasapk();
        this.stat
=k.getCon().prepareStatement("insert into tbdata
values(?,?,?,?)");
        stat.setInt(1, 0); //input auto increment
id_buket
        stat.setString(2, a.nama);
        stat.setString(3, a.alamat);
        stat.setInt(4, a.hp);
        stat.executeUpdate(); //memperbaharui
database
        refreshTable();
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null,
e.getMessage());
    }
}
}

```

- bt_update > event > actions performed

```

private void
bt_updateActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_bt_updateActionPerformed

```

```

        // TODO add your handling code here:
        try {
            tugasapk a = new tugasapk();
            this.stat =
k.getCon().prepareStatement("update tbdata set nama=?, "
                            + "alamat=?, hp=? where no=? ");
            stat.setString(1, a.nama);
            stat.setString(2, a.alamat);
            stat.setInt(3, a.hp);
            stat.setInt(4,
Integer.parseInt(text_no.getText()));
            stat.executeUpdate();
            refreshTable();
        } catch (Exception e) {
            JOptionPane.showMessageDialog(null,
e.getMessage());
        }
    }
}

```

- bt_delete > event > actions performed

```

private void
bt_deleteActionPerformed(java.awt.event.ActionEvent evt)
{ //GEN-FIRST:event_bt_deleteActionPerformed
    // TODO add your handling code here:
    try {
        this.stat =
k.getCon().prepareStatement("delete from tbdata where
no=?");
        stat.setInt(1,
Integer.parseInt(text_no.getText()));
        stat.executeUpdate();
        refreshTable();
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null,
e.getMessage());
    }
}
}

```

- bt_cari > event > actions performed

```

private void
tabel_apkMouseClicked(java.awt.event.MouseEvent evt)
{ //GEN-FIRST:event_tabel_apkMouseClicked
    // TODO add your handling code here:
    text_no.setText(model.getValueAt(tabel_apk.getSe
lectedRow(), 0).toString());
    text_nama.setText(model.getValueAt(tabel_apk.get
SelectedRow(), 1).toString());
}
}

```

```

        text_alamat.setText(model.getValueAt(tabel_apk.g
etSelectedRow(), 2).toString());
        text_hp.setText(model.getValueAt(tabel_apk.getSe
lectedRow(), 3).toString());
    }

```

- tabel_apk > events > mouse > mouse clicked

```

K
private void
bt_cariActionPerformed(java.awt.event.ActionEvent evt)
{
    //GEN-FIRST:event_bt_cariActionPerformed
    // TODO add your handling code here:
    try {
        java.sql.Connection conn = k.getCon();
        String sql = "select * from tbdata where
no=? or nama=?";
        java.sql.PreparedStatement pst =
conn.prepareStatement(sql);
        pst.setString(1, text_cari.getText());
        pst.setString(2, text_cari.getText());
        ResultSet rs = pst.executeQuery();
        if (rs.next()) {
            text_no.setText(rs.getString("no"));
            text_nama.setText(rs.getString("nama"));
            text_alamat.setText(rs.getString("alamat
"));
            text_hp.setText(rs.getString("hp"));
            JOptionPane.showMessageDialog(null,
            "Data: " + text_cari.getText() + " ditemukan, Apakah
Anda Ingin Mengedit atau Menghapus?");
        } else {
            JOptionPane.showMessageDialog(null,
            "Data: " + text_cari.getText() + " Tidak ditemukan.");
        }
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null,
e.getMessage());
    }
    text_cari.requestFocus();
}

```

- main

```

public static void main(String args[]) {
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new apk().setVisible(true);
        }
    });
}

```

```
}  
});  
}
```

G. Output/ Hasil Running

- Tampilan awal

The screenshot shows a window titled "DATA MAHASISWA" with a standard Windows interface (minimize, maximize, close buttons). The window contains a form with four input fields: "No", "Alamat", "Nama", and "Telepon/HP". Below the form are three buttons: "Simpan", "Update", and "Delete". There is also a search section with an empty input field and a "Cari" button. At the bottom, there is a table with four columns: "NO", "Nama", "Alamat", and "Telepon/HP". The table is currently empty.

- Input

The screenshot shows the same "DATA MAHASISWA" window, but now with input data. The "Alamat" field contains "Jambi", the "Nama" field contains "Fatimah Az Zahra", and the "Telepon/HP" field contains "12345". The "Simpan", "Update", and "Delete" buttons are still present. The search section remains empty. The table at the bottom is still empty.

- Simpan

DATA MAHASISWA

No Alamat

Nama Telepon/HP

NO	Nama	Alamat	Telepon/HP
1	Fatimah Az Z...	Jambi	12345
2	Afif Dhaifulloh	Bekasi	34521

Server: 127.0.0.1:4306 » Database: dbproyek » Table: tbdata

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#)

Showing rows 0 - 1 (2 total, Query took 0.0007 seconds.)

`SELECT * FROM `tbdata``

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

	no	nama	alamat	hp
<input type="checkbox"/> Edit Copy Delete	1	Fatimah Az Zahra	Jambi	12345
<input type="checkbox"/> Edit Copy Delete	2	Afif Dhaifulloh	Bekasi	34521

[Check all](#) | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

- Update

DATA MAHASISWA

No Alamat

Nama Telepon/HP

NO	Nama	Alamat	Telepon/HP
1	Fatimah Az Z...	Jambi	12345
2	Afif Dhaifulloh	Bandung	34521

- Delete

DATA MAHASISWA

No Alamat

Nama Telepon/HP

NO	Nama	Alamat	Telepon/HP
2	Afif Dhaifulloh	Bandung	34521

Extra options

		no	nama	alamat	hp
<input type="checkbox"/>	Edit	Copy	Delete	2 Afif Dhaifulloh	Bandung 34521

- Cari

Message ×

Data: 2 ditemukan, Apakah Anda Ingin Mengedit atau Menghapus?

Message ×

Data: 1 Tidak ditemukan.