



UNIVERSITAS
MERCU BUANA

**APLIKASI MOBILE SMS GATEWAY KEGIATAN AKADEMIK SMA
HANGTUAH 1 JAKARTA SELATAN**

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**PROGRAM STUDI SISTEM INFORMASI
FAKULTAS ILMU KOMPUTER
UNIVERSITAS MERCUBUANA
2012**



**APLIKASI MOBILE SMS GATEWAY KEGIATAN AKADEMIK SMA
HANGTUAH 1 JAKARTASELATAN**

Laporan Tugas Akhir

Diajukan Untuk Melengkapi Salah Satu Syarat

Memperoleh Gelar Sarjana Komputer

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2012

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AKADEMIK SMA HANGTUAH 1 JAKARTA

SELATAN

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Jakarta, Februari 2012



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KATA PENGANTAR

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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Tujuan dari pembuatan Laporan Tugas akhir ini adalah sebagai salah satu syarat untuk menyelesaikan Program Pendidikan Strata Satu (S1) Jurusan Sistem Informasi di Universitas Mercu Buana, Jakarta dan memberikan manfaat bagi SEKOLAH SMA HANGTUAH1 dalam menjalankan kegiatan akademiknya

Penulis berharap tugas akhir ini dapat memberikan informasi yang bermanfaat dan pengetahuan bagi para pembaca umumnya serta mahasiswa khususnya. Semoga tugas akhir ini dapat menjadi bahan perbandingan dan di kembangkan agar menjadi suatu karya ilmiah yang baik.

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DAFTAR PUSTAKA

A,O'brien , James., *Introducing To Information System*, Jakarta: Salemba Empat,2006.

Al Fatta, Hanif., *Analisis Dan Perancangan Sistem Informasi*, Yogyakarta: ANDI, 2007.

Fathansyah., *Sistem Basis Data*, Bandung: Informatika, 2007.

Fowler, Martin., *UML Distiled Edisi 3: Panduan Singkat Bahasa Pemodelan Objek Standar*, Yogyakarta: ANDI, 2005.

Munawar, *Pemodelan Visual Dengan UML*. Jakarta ; Graha Ilmu, 2005

Prof. Dr. Jogiyanto H. M, M.B.A., Akt., *Pengenalan Komputer*, Yogyakarta: ANDI, 2005.

Wahju T. Saputro, *MySQL*, Cetakan ke-1, Pena Media, Yogyakarta, 2005,

www.cs.ui.ac.id/7.08.2009

www.fenni_saff.gunadarma.ac.id/10.10.09

LISTING PROGRAM

```

MENU UTAMA
package HT;

import
org.omg.CORBA.COMM_F
FAILURE;public class
MenuUtama extends
javax.swing.JFrame {
    private WaliSiswa
frmwalisiswa;
    private Siswa frmsiswa;
    private Kelas frmKelas;
    private SmsServer
frmsmserver;
    private MataPelajaran
frmmatpel;
    private NilaiPelajaran
frmnilai;
    private Absensi frmabsen;
    private SiswaKelas
frmsiswakelas;
    private JadwalUjian
frmjadwalujian;
    private Administrator
frmadmin;
    private EditAccount
editakun;
    private Spp frmSPP;

    private String[] strDtUser;

    private boolean b;

    /** Creates new form
MenuUtama */
    itmUser.setIcon(new
javax.swing.ImageIcon(getCl
ass().getResource("/gambar/a
dmin - Copy.png")); //
NOI18N

    itmUser.setText("Administrat
or");
    itmUser.setEnabled(b);

    itmUser.setName("itmUser");
// NOI18N

    itmUser.addActionListener(n
ew
java.awt.event.ActionListener
() {
        public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {
            itmUserActionPerformed(evt)
;

```

```
        }
    });
    fileMenu.add(itmUser);

    itmEditAkun.setIcon(new
    javax.swing.ImageIcon(getClass().getResource("/gambar/SignMidletIcon.png")); //
    NOI18N

    itmEditAkun.setText("Edit
    Account");

    itmEditAkun.setName("itmE
    ditAkun"); // NOI18N

    itmEditAkun.addActionListener(new
    java.awt.event.ActionListener
    () {
        public void
        actionPerformed(java.awt.eve
        nt.ActionEvent evt) {

            itmEditAkun11ActionPerfor
            med(evt);
        }
    });

    fileMenu.add(itmEditAkun);

        jSeparator4.setName("jSepar
        ator4"); // NOI18N

        fileMenu.add(jSeparator4);

        itmLogout.setIcon(new
        javax.swing.ImageIcon(getClass().getResource("/gambar/LOGGOFF.PNG")); //
        NOI18N

        itmLogout.setText("Logout")
        ;

        itmLogout.setName("itmLog
        out"); // NOI18N

        itmLogout.addActionListener(new
        java.awt.event.ActionListener
        () {
            public void
            actionPerformed(java.awt.eve
            nt.ActionEvent evt) {

                itmLogoutActionPerformed(e
                vt);
            }
        });

        fileMenu.add(itmLogout);
```

```
exitMenuItem.setAccelerator(  
    javax.swing.KeyStroke.getKeyStroke(  
        java.awt.event.KeyEvent.VK_F4,  
        java.awt.event.InputEvent.ALT_MASK));  
  
exitMenuItem.setIcon(new  
    javax.swing.ImageIcon(getClass().getResource("/gambar/exit_16.png"))); // NOI18N  
  
exitMenuItem.setMnemonic('x');  
  
exitMenuItem.setText("Exit");  
;  
  
exitMenuItem.setName("exitMenuItem"); // NOI18N  
  
exitMenuItem.addActionListener(new  
    java.awt.event.ActionListener() {  
        public void  
        actionPerformed(java.awt.event.ActionEvent evt) {  
            masterMenuItemActionPerformed(evt);  
        }  
    });  
  
exitMenuItemActionPerformed(evt);  
    }  
});  
  
fileMenu.add(exitMenuItem);  
  
menuBar.add(fileMenu);  
  
masterMenu.setMnemonic('o');  
  
masterMenu.setText("Form");  
;  
  
masterMenu.setName("masterMenu"); // NOI18N  
  
masterMenu.addActionListener(new  
    java.awt.event.ActionListener() {  
        public void  
        actionPerformed(java.awt.event.ActionEvent evt) {  
            masterMenuItemActionPerformed(evt);  
        }  
    });
```

```
itmSiswa.setIcon(new  
javax.swing.ImageIcon(getClass()  
.getResource("/gambar/b  
tnsiswa - Copy.png"))); //  
NOI18N
```

```
itmSiswa.setText("Siswa");
```

```
itmSiswa.setName("itmSiswa  
"); // NOI18N
```

```
itmSiswa.addActionListener(  
new  
java.awt.event.ActionListener  
() {  
    public void  
actionPerformed(java.awt.eve  
nt.ActionEvent evt) {
```

```
itmSiswaActionPerformed(ev  
t);  
    }  
});
```

```
masterMenu.add(itmSiswa);
```

```
itmKelas.setIcon(new  
javax.swing.ImageIcon(getClass()  
.getResource("/gambar/b  
tnkelas - Copy.png"))); //  
NOI18N
```

```
itmKelas.setText("Kelas");
```

```
itmKelas.setName("itmKelas  
"); // NOI18N
```

```
itmKelas.addActionListener(  
new  
java.awt.event.ActionListener  
() {  
    public void  
actionPerformed(java.awt.eve  
nt.ActionEvent evt) {
```

```
itmKelasActionPerformed(ev  
t);  
    }  
});
```

```
masterMenu.add(itmKelas);
```

```
itmWaliSiswa.setIcon(new  
javax.swing.ImageIcon(getClass()  
.getResource("/gambar/b  
- Copy.png"))); // NOI18N
```

```
itmWaliSiswa.setText("Wali  
Siswa");
```

```
itmWaliSiswa.setName("itm  
WaliSiswa"); // NOI18N
```



```
itmWaliSiswa.addActionList  
ener(new  
java.awt.event.ActionListener  
() {  
    public void  
actionPerformed(java.awt.eve  
nt.ActionEvent evt) {
```

```
itmWaliSiswaActionPerform  
ed(evt);  
    }  
});
```

```
masterMenu.add(itmWaliSis  
wa);
```

```
itmMatpel.setIcon(new  
javax.swing.ImageIcon(getCl  
ass().getResource("/gambar/  
matpel16.png")); // NOI18N
```

```
itmMatpel.setText("Pelajaran  
");
```

```
itmMatpel.setName("itmMat  
pel"); // NOI18N
```

```
itmMatpel.addActionListener  
(new  
java.awt.event.ActionListener  
() {
```

```
public void  
actionPerformed(java.awt.eve  
nt.ActionEvent evt) {  
itmMatpelActionPerformed(e  
vt);  
    }  
});
```

```
masterMenu.add(itmMatpel);
```

```
itmAbsensi.setIcon(new  
javax.swing.ImageIcon(getCl  
ass().getResource("/gambar/a  
ddress_16.png")); // NOI18N
```

```
itmAbsensi.setText("Absensi  
");
```

```
itmAbsensi.setName("itmAbs  
ensi"); // NOI18N
```

```
itmAbsensi.addActionListener  
(new  
java.awt.event.ActionListener  
() {
```

```
public void  
actionPerformed(java.awt.eve  
nt.ActionEvent evt) {
```

```
itmAbsensiActionPerformed  
(evt);
```

```
        }
    });

    masterMenu.add(itmAbsensi)
;

    itmNilai.setIcon(new
javax.swing.ImageIcon(getCl
ass().getResource("/gambar/c
lipboard_16.png")); //
NOI18N
    itmNilai.setText("Nilai
Ujian");

    itmNilai.setName("itmNilai")
; // NOI18N

    itmNilai.addActionListener(n
ew
java.awt.event.ActionListener
() {
        public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {

    itmNilai1 ActionPerformed(ev
t);

    itmNilai ActionPerformed(evt
);
        }
    });

        }
    });

    masterMenu.add(itmNilai);

    itmJadwalUjian.setIcon(new
javax.swing.ImageIcon(getCl
ass().getResource("/gambar/b
tntunggakan - Copy.png"));
// NOI18N

    itmJadwalUjian.setText("Jad
wal Ujian");

    itmJadwalUjian.setName("it
mJadwalUjian"); // NOI18N

    itmJadwalUjian.addActionLis
tener(new
java.awt.event.ActionListener
() {
        public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {

    itmJadwalUjian1 ActionPerfor
med(evt);
        }
    });

    masterMenu.add(itmJadwalU
jian);
```

```
        itmSPP.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/gambar/d
ocument_16.png")); //
NOI18N
        itmSPP.setText(" SPP");

itmSPP.setName("itmSPP");
// NOI18N

itmSPP.addActionListener(new
w
java.awt.event.ActionListener
() {
    public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {

itmSPP1ActionPerformed(evt
);
    }
});

masterMenu.add(itmSPP);

itmSiswaKelas.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/gambar/b
tnkelas - Copy.png")); //
NOI18N

        itmSiswaKelas.setText("Sisw
a Kelas");

        itmSiswaKelas.setName("itm
SiswaKelas"); // NOI18N

        itmSiswaKelas.addActionList
ener(new
java.awt.event.ActionListener
() {
    public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {

        itmSiswaKelas1 ActionPerfor
med(evt);
    }
});

        masterMenu.add(itmSiswaKe
las);

        jSeparator2.setName("jSepar
ator2"); // NOI18N

        masterMenu.add(jSeparator2)
;
```

```
jSeparator5.setName("jSeparator5"); // NOI18N

masterMenu.add(jSeparator5)
;

menuBar.add(masterMenu);

mnuSmsServer.setMnemonic('S');

mnuSmsServer.setText("SMS Gateway");

mnuSmsServer.setName("mnuSmsServer"); // NOI18N

itmSmsServer.setIcon(new javax.swing.ImageIcon(getClass().getResource("/gambar/smsserver16.png"))); // NOI18N

itmSmsServer.setText("SMS Server");

itmSmsServer.setName("itmSmsServer"); // NOI18N

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

mnuSmsServer.add(itmSmsServer);

menuBar.add(mnuSmsServer);

setJMenuBar(menuBar);

getAccessibleContext().setAccessibleDescription("Entry");

java.awt.Dimension screenSize =
java.awt.Toolkit.getDefaultToolkit().getScreenSize();
```

```
setBounds((screenSize.width-  
931)/2, (screenSize.height-  
536)/2, 931, 536);
```

```
// </editor-fold>
```

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

```
if(cekFrmYgAktif("FORM  
WALI SISWA")){
```

```
try {
```

```
frmwalisiswa.setIcon(false);
```

```
frmwalisiswa.setSelected(true  
);
```

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

```
{
```

```
e.printStackTrace();
```

```
}
```

```
}else{
```

```
frmwalisiswa = new
```

```
WaliSiswa();
```

```
setFrame(frmwalisiswa,  
desktopPane);
```

```
}
```

```
}
```

```
private void
```

```
itmEditAkunActionPerformed(  
java.awt.event.ActionEv  
ent evt) {
```

```
// TODO add your handling  
code here:
```

```
if(cekFrmYgAktif("FORM  
EDIT ACCOUNT")){
```

```
try {
```

```
editakun.setIcon(false);
```

```
editakun.setSelected(true);
```

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

```
{
```

```
e.printStackTrace();
```

```
}
```

```
}else{
```

```
editakun = new
```

```
EditAccount(strDtUser);
```

```
setFrame(editakun,
```

```
desktopPane);
```

```
}
```

```
}
```

```
private void
```

```
itmLogoutActionPerformed(  
java.awt.event.ActionEvent  
evt) {
```

```
}
```

```
// TODO add your handling
code here:
    this.dispose();
    new Login(null, true);
}

private void
itmUserActionPerformed(jav
a.awt.event.ActionEvent evt)
{
// TODO add your handling
code here:

if(cekFrmYgAktif("FORM
ADMINISTRATOR")){
    try {

frmadmin.setIcon(false);

frmadmin.setSelected(true);
    } catch (Exception e)
{
    e.printStackTrace();
    }
}else{
    frmadmin = new
Administrator();
    setFrame(frmadmin,
desktopPane);
}
}
```

```
private void
itmJadwalUjian1 ActionPerfor
med(java.awt.event.ActionEv
ent evt) {
// TODO add your handling
code here:
    If
ABSENSI
package HT;

public class Absensi extends
javax.swing.JInternalFrame {

    private Pengaturan p = new
Pengaturan();

    private static
javax.swing.JTable tblData;
    private static
javax.swing.JScrollPane sp =
new
javax.swing.JScrollPane();

    private String
strKodeygDiKlik;

    private int lebarkolom[] =
{p.KODE_ABSENSI, p.NIS,
p.NAMA, p.TANGGAL,
p.KETERANGAN,p.THN_A
JARAN,p.SEMESTER};
```

```

        }else
        if(rdSakit.isSelected()){
            strKet =
            rdSakit.getText();
        }else
        if(rdBolos.isSelected()){
            strKet =
            rdBolos.getText();
        }
        return strKet;
    }

    private void simpan(){
        String strValues =
        ""+txtKdAbsensi.getText().re
        place("", "").replace("\\", "")+
        "," +
        ""+txtNIS.getText().replace(
        "", "").replace("\\", "")+"," +
        ""+getTanggal("yyyy-MM-
        dd").replace("", "").replace("\
        ", "")+"," +
        ""+getKeterangan()+"," +
        ""+cmbThnAjaran.getSelected
        dItem()+"," +

/** Creates new form
FrmMatPel */
public Absensi() {
    initComponents();
    reset();
}

private String
getTanggal(String format){
    java.util.Date d =
    jDateChooser1.getDate();

    java.text.SimpleDateFormat
    sdf = new
    java.text.SimpleDateFormat(f
    ormat,
    java.util.Locale.getDefault());
    String strTgl =
    ""+sdf.format(d);

    return strTgl;
}

private String
getKeterangan(){
    String strKet = null;

    if(rdIzin.isSelected()){
        strKet =
        rdIzin.getText();

```

```
""+cmbSemester.getSelected
Item()+"";
```

```
String strSQL1 =
"SELECT * FROM
absensi_siswa " +
"WHERE
KdAbsensi='"+txtKdAbsensi.
getText().replace("'", "").repla
ce("\\'", "'")+"' " +
"AND
TglAbsensi='"+getTanggal("
yyyy-MM-dd")+"' " ;
```

```
String strSQL2 =
"SELECT * FROM
absensi_siswa " +
"WHERE
NIS='"+txtNIS.getText().repl
ace("'", "").replace("\\'", "'")+"'
" +
"AND
TglAbsensi='"+getTanggal("
yyyy-MM-dd")+"' " +
"AND
ThnAjrAbsensi='"+cmbThnA
jaran.getSelectedItemAt()+"' " +
"AND
SmtAbsensi='"+cmbSemester
.getSelectedItemAt()+"";
```

```
if(
PakeBersama.cekData(strSQ
L1) ){
```

```
javax.swing.JOptionPane sho
wMessageDialog(null, "Kode
Absensi sudah ada!",
"GAGAL
SIMPAN DATA!!",
javax.swing.JOptionPane.ER
ROR_MESSAGE);
```

```
txtKdAbsensi.requestFocus();
} else {
```

```
if(PakeBersama.cekData(strS
QL2)){
```

```
javax.swing.JOptionPane sho
wMessageDialog(null, "Data
sudah ada!",
"GAGAL
SIMPAN DATA!!",
```

```
javax.swing.JOptionPane.ER
ROR_MESSAGE);
```

```
} else {
try {
```



```
PakeBersama.insert("absensi
_siswa",strValues);
```

```
javax.swing.JOptionPane.sho
wMessageDialog(null,"Simpa
n data berhasil.",
```

```
                "SIMPAN
DATA",javax.swing.JOption
Pane.INFORMATION_MES
SAGE);
```

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

```
e.printStackTrace();
```

```
        }
    }
}
}
```

```
private void ubah(String
value){
```

```
    String strSQL2 =
"SELECT * FROM
absensi_siswa " +
        "WHERE
NIS="+txtNIS.getText().repl
ace("","").replace("\","")+
" +
```

```
        "AND
Keterangan="+getKeteranga
n()+"" +
```

```
"AND
```

```
TglAbsensi="+getTanggal("
yyyy-MM-dd")+"" +
```

```
"AND
```

```
ThnAjrAbsensi="+cmbThnA
jaran.getSelectedItem()+"" +
```

```
"AND
```

```
SmtAbsensi="+cmbSemester
.getSelectedItem()+"";
```

```
if{
```

```
PakeBersama.cekData(strSQ
L2) ){
```

```
javax.swing.JOptionPane.sho
wMessageDialog(null,"Data
sudah ada!","GAGAL
UPDATE DATA!!",
```

```
javax.swing.JOptionPane.ER
ROR_MESSAGE);
```

```
txtKdAbsensi.requestFocus();
```

```
    }else{
```

```
        try{
```

```
PakeBersama.update("absensi
_siswa","TglAbsensi="+getT
anggal("yyyy-MM-
dd").replace("","").replace("\
```

```

        "" , "" ) + "" , "KdAbsensi" , value)
        ;

        PakeBersama.update("absensi
        _siswa" , "Keterangan=" + getK
        eterangan() + "" , "KdAbsensi" ,
        value);

        PakeBersama.update("absensi
        _siswa" , "ThnAjrAbsensi=" +
        cmbThnAjaran.getSelectedIte
        m() + "" , "KdAbsensi" , value);

        PakeBersama.update("absensi
        _siswa" , "SmtAbsensi=" + cm
        bSemester.getSelectedItem()
        + "" , "KdAbsensi" , value);

        javax.swing.JOptionPane sho
        wMessageDialog(null , "Ubah
        data berhasil." ,
                "UBAH
        DATA" , javax.swing.JOption
        Pane.INFORMATION _MES
        SAGE);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}

        private void
        loadData (String sql , String []
        judulKolomUtkTabel , int
        lebarkolom []) {
            tblData =
            PakeBersama.createJTable (sq
            l , judulKolomUtkTabel ,
            lebarkolom);

            sp.getViewport().add(tblData
            );

            if (tblData.getRowCount() > 0)
            {

                tblData.setRowSelectionInter
                val(0,0);
            }

            tblData.addMouseListener (ne
            w
            java.awt.event.MouseAdapter
            () {

                public void
                mouseClicked (java.awt.event
                .MouseEvent e) {
                    strKodeygDiKlik =
                    "" + tblData.getValueAt (tblDat
                    a.getSelectedRow(),0);

                    if (e.getClickCount() == 2) {

```

```
        view());

jTabbedPane1.setSelectedIndex(0);
    }
    });

panelTabel.removeAll();
panelTabel.add(sp,
java.awt.BorderLayout.CENTER);
}

private void view(){

PakeBersama.getData(txtKdAbsensi,"absensi_siswa","KdAbsensi","KdAbsensi",strKodeygDiKlik);

PakeBersama.getData(txtNIS,"absensi_siswa","KdAbsensi",strKodeygDiKlik);

PakeBersama.getData(txtNmSiswa,"siswa","Nama","NIS",txtNIS.getText());

jDateChooser1.setDate(PakeBersama.getTanggal("absensi_siswa","TglAbsensi","KdAbsensi",strKodeygDiKlik));

PakeBersama.getData(new javax.swing.JRadioButton[]{rdSakit,rdBolos,rdIzin},
"absensi_siswa","Keterangan","KdAbsensi",strKodeygDiKlik);

PakeBersama.getData(cmbThnAjaran,"absensi_siswa","ThnAjrAbsensi","KdAbsensi",strKodeygDiKlik);

PakeBersama.getData(cmbSemester,"absensi_siswa","SmtAbsensi","KdAbsensi",strKodeygDiKlik);

txtNIS.setEnabled(false);

btnCariSiswa.setEnabled(false);

txtKdAbsensi.setEnabled(false);

btnSimpan.setEnabled(false);
```

```

btnUbah.setEnabled(true);

btnHapus.setEnabled(true);
}

private void cari(){
    String strFields[] =
{"a.NIS","b>Nama","a.TglAbsensi"};
    String strSQL = "";

if(rdMiripKtKunci.isSelected())
    strSQL = "SELECT
a.KdAbsensi, a.NIS, b>Nama,
DATE_FORMAT(a.TglAbsensi,'%d/%m/%Y'), " +
"a.Keterangan,
a.ThnAjrAbsensi,
a.SmtAbsensi " +
"FROM
absensi_siswa a, siswa b " +
"WHERE
a.NIS=b.NIS "+
"AND
"+strFields[cmbCariBer.getSelectedIndex()]+ " " +
"LIKE
%" +txtKtKunci.getText().replace("","").replace("\",")+"
%";
}

} else {
    strSQL = "SELECT
a.KdAbsensi, a.NIS, b>Nama,
DATE_FORMAT(a.TglAbsensi,'%d/%m/%Y'), " +
"a.Keterangan,
a.ThnAjrAbsensi,
a.SmtAbsensi " +
"FROM
absensi_siswa a, siswa b " +
"WHERE
a.NIS=b.NIS "+
"AND
"+strFields[cmbCariBer.getSelectedIndex()]+ " = " +
txtKtKunci.getText().replace("","").replace("\",")+"";
}

try {
    loadData(strSQL, new String[] {"Kode Absensi", "NIS", "Nama", "Tanggal", "Keterangan", "Tahun Ajaran", "Semester"}, lebar kolom);
}

if(tblData.getRowCount()>0)
{

```

```
javax.swing.JOptionPane.show  
wMessageDialog(null,  
                "Ditemukan  
"+tblData.getRowCount()+"  
data.",
```

```
"PENCARIAN",javax.swing.  
JOptionPane.INFORMATIO  
N_MESSAGE);
```

```
jTabbedPane1.setSelectedInd  
ex(1);
```

```
}else{
```

```
javax.swing.JOptionPane.show  
wMessageDialog(null,  
                "Data tidak  
ditemukan!",
```

```
"PENCARIAN",javax.swing.  
JOptionPane.WARNING_M  
ESSAGE);
```

```
}
```

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

```
e.printStackTrace();
```

```
}
```

```
}
```

```
private void reset(){
```

```
loadData("SELECT  
a.KdAbsensi, a.NIS, b>Nama,  
DATE_FORMAT(a.TglAbse  
nsi,'%d/%m/%Y'), " +
```

```
"a.Keterangan,
```

```
a.ThnAjrAbsensi,
```

```
a.SmtAbsensi " +
```

```
"FROM
```

```
absensi_siswa a, siswa b " +
```

```
"WHERE
```

```
a.NIS=b.NIS",
```

```
new String[]
```

```
{"Kode
```

```
Absensi","NIS","Nama","Tan
```

```
ggal","Keterangan",
```

```
"Tahun
```

```
Ajaran","Semester"},lebakol
```

```
om);
```

```
PakeBersama.clearText(new
```

```
javax.swing.JTextField[]
```

```
{txtKdAbsensi,txtNIS,txtNm
```

```
Siswa});
```

```
btnSimpan.setEnabled(false);
```

```
btnUbah.setEnabled(false);
```

```
btnHapus.setEnabled(false);
```

```
cmbThnAjaran.setSelectedIte
```

```
m(""+getTanggal("yyyy")+"/
"+(Integer.parseInt(getTangg
al("yyyy))+1));
```

```
buttonGroup1.clearSelection(
);
```

```
txtNIS.setEnabled(true);
```

```
btnCariSiswa.setEnabled(true
);
```

```
jDateChooser1.setEnabled(tr
ue);
```

```
jDateChooser1.setVisible(tru
e);
```

```
txtKdAbsensi.setEnabled(true
);
```

```
txtKdAbsensi.setText(PakeB
ersama.bikinKode(tblData,"A
S"));
```

```
txtKdAbsensi.requestFocus();
}
```

```
/** 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.
```

```
*/
// <editor-fold
defaultstate="collapsed"
desc="Generated Code">
```

```
private void
 initComponents() {

    buttonGroup1 = new
    javax.swing.ButtonGroup();
    buttonGroup2 = new
    javax.swing.ButtonGroup();
    jTabbedPane1 = new
    javax.swing.JTabbedPane();
    jPanel2 = new
    javax.swing.JPanel();
    panelTombol = new
    javax.swing.JPanel();
    btnSimpan = new
    javax.swing.JButton();
    btnReset = new
    javax.swing.JButton();
    btnUbah = new
    javax.swing.JButton();
    btnHapus = new
    javax.swing.JButton();
    btnBatal = new
    javax.swing.JButton();
```

```
        jPanel1 = new
javax.swing.JPanel();
        lbl1 = new
javax.swing.JLabel();
        txtKdAbsensi = new
javax.swing.JTextField();
        lbl2 = new
javax.swing.JLabel();
        txtNIS = new
javax.swing.JTextField();
        lbl3 = new
javax.swing.JLabel();
        lbl4 = new
javax.swing.JLabel();
        lbl5 = new
javax.swing.JLabel();
        rdIzin = new
javax.swing.JRadioButton();
        rdSakit = new
javax.swing.JRadioButton();
        rdBolos = new
javax.swing.JRadioButton();
        lbl9 = new
javax.swing.JLabel();
        txtNmSiswa = new
javax.swing.JTextField();
        btnCariSiswa = new
javax.swing.JButton();
        lbl11 = new
javax.swing.JLabel();
        cmbSemester = new
javax.swing.JComboBox();

        cmbThnAjaran = new
javax.swing.JComboBox();
        jDateChooser1 = new
com.toedter.calendar.JDateC
hooser();
        panelPencarian = new
javax.swing.JPanel();
        txtKtKunci = new
javax.swing.JTextField();
        lblKtKunci = new
javax.swing.JLabel();
        cmbCariBer = new
javax.swing.JComboBox();
        lblCariBer = new
javax.swing.JLabel();
        btnCari = new
javax.swing.JButton();
        rdSesuaiKtKunci = new
javax.swing.JRadioButton();
        rdMiripKtKunci = new
javax.swing.JRadioButton();
        jPanel3 = new
javax.swing.JPanel();
        panelTabel = new
javax.swing.JPanel();
        jLabel3 = new
javax.swing.JLabel();
        jLabel1 = new
javax.swing.JLabel();
        setClosable(true);
        setIconifiable(true);
```

```
        setTitle("FORM
ABSENSI"); // NOI18N
        setFrameIcon(new
javax.swing.ImageIcon(getCl
ass().getResource("/gambar/a
ddress_16.png")); // NOI18N
        try {
            setSelected(true);
        } catch
(java.beans.PropertyVetoExc
eption e1) {
            e1.printStackTrace();
        }
        setVisible(true);

        getContentPane().setLayout(n
ull);

        jPanel2.setLayout(null);

        panelTombol.setBorder(javax
.swing.BorderFactory.createT
itledBorder(null, "TOMBOL
KONTROL",
javax.swing.border.TitledBor
der.DEFAULT_JUSTIFICA
TION,
javax.swing.border.TitledBor
der.DEFAULT_POSITION,
new java.awt.Font("Tahoma",
0, 11), new java.awt.Color(0,
0, 255)); // NOI18N

        panelTombol.setLayout(null);

        btnSimpan.setIcon(new
javax.swing.ImageIcon(getCl
ass().getResource("/gambar/s
ave_16.png")); // NOI18N

        btnSimpan.setText("Simpan"
); // NOI18N

        btnSimpan.setEnabled(false);

        btnSimpan.setHorizontalText
Position(javax.swing.SwingC
onstants.RIGHT);

        btnSimpan.addActionListener
(new
java.awt.event.ActionListener
() {
            public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {
                btnSimpanActionPerformed(e
vt);
            }
        });
```



```
panelTombol.add(btnSimpan)
;

btnSimpan.setBounds(10, 20,
100, 25);

    btnReset.setIcon(new
javax.swing.ImageIcon(getCl
ass().getResource("/gambar/b
ersih.PNG")); // NOI18N

btnReset.setText("Reset"); //
NOI18N

btnReset.addActionListener(n
ew
java.awt.event.ActionListener
() {
    public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {

btnResetActionPerformed(evt
);
    }
});

panelTombol.add(btnReset);
    btnReset.setBounds(310,
20, 100, 25);

        btnUbah.setIcon(new
javax.swing.ImageIcon(getCl
ass().getResource("/gambar/u
bah.png")); // NOI18N

btnUbah.setText("Ubah"); //
NOI18N

btnUbah.setEnabled(false);

btnUbah.addActionListener(n
ew
java.awt.event.ActionListener
() {
    public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {

btnUbahActionPerformed(evt
);
    }
});

panelTombol.add(btnUbah);
    btnUbah.setBounds(110,
20, 100, 25);

        btnHapus.setIcon(new
javax.swing.ImageIcon(getCl
ass().getResource("/gambar/tr
ash_16.png")); // NOI18N
```

```
btnHapus.setText("Hapus");
// NOI18N

btnHapus.setEnabled(false);

btnHapus.addActionListener(
new
java.awt.event.ActionListener
() {
    public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {

btnHapusActionPerformed(evt);
    }
});

panelTombol.add(btnHapus);

btnHapus.setBounds(210, 20,
100, 25);

    btnBatal.setIcon(new
javax.swing.ImageIcon(getCl
ass().getResource("/gambar/k
eluar.PNG")); // NOI18N

btnBatal.setText("Keluar"); //
NOI18N

btnBatal.addActionListener(n
ew
java.awt.event.ActionListener
() {
    public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {

btnBatalActionPerformed(evt
);
    }
});

panelTombol.add(btnBatal);
    btnBatal.setBounds(410,
20, 100, 25);

jPanel2.add(panelTombol);

panelTombol.setBounds(10,
230, 520, 60);

jPanel1.setBorder(javax.swin
g.BorderFactory.createTitled
Border(null, "ENTRI DATA
ABSENSI",
javax.swing.border.TitledBor
der.DEFAULT_JUSTIFICA
TION,
```

NILAI PELAJARAN

package HT;

public class NilaiPelajaran

extends

javax.swing.JInternalFrame {

private Pengaturan p = new
Pengaturan();

private static

javax.swing.JTable tblData;

private static

javax.swing.JScrollPane sp =

new

javax.swing.JScrollPane();

private String

strKodeygDiKlik;

private String[]

strJdlKolom =

{"NIS", "Nama", "Kode

Ujian", "Kode

MatPel", "MatPel", "Kode

Kelas", "Kelas", "Nilai", "Tahu

n Ajaran", "Semester"};

private int[] lebarkolom =

{p.NIS,

p.NAMA,p.KODE_UJIAN,

p.KODE_MATPEL,

p.NM_MATPEL,

p.KELAS, p.NILAI_UJIAN,

p.THN_AJARAN,

p.SEMESTER};

/** Creates new form

FrmMatPel */

public NilaiPelajaran() {

initComponents();

reset();

}

// private void

setCmbKelas(){

//

PakeBersama.addToComboD

ata(cmbKelasCari,"ujian","DI

STINCT KdKls");

//}

private String

getJenisUjian(){

if(rdUTS.isSelected()){

return

rdUTS.getText();

}else

if(rdUAS.isSelected()){

return

rdUAS.getText();

}

return null;

}

```

private void simpan(){
    String strValues =

    ""+txtKdUjian.getText().repl
    ace("", "").replace("\\", "")+"",
    " +

    ""+txtNIS.getText().replace(
    "", "").replace("\\", "")+"", " +

    ""+txtNilai.getText()+""";

    String strSQL1 =
    "SELECT * FROM nilai " +
    "WHERE KdUjian
    =
    ""+txtKdUjian.getText().repla
    ce("", "").replace("\\", "")+" "
    +
    "AND
    NIS=""+txtNIS.getText().repl
    ace("", "").replace("\\", "")+"
    ";

    if(
    PakeBersama.cekData(strSQ
    L1) ){

    javax.swing.JOptionPane sho
    wMessageDialog(null, "Data

```

```

Nilai sudah ada!", "SIMPAN
DATA GAGAL!!",

javax.swing.JOptionPane.ER
ROR_MESSAGE);

txtKdUjian.requestFocus();
    }else
    try{

    PakeBersama.insert("nilai",st
    rValues);

    javax.swing.JOptionPane sho
    wMessageDialog(null, "Simpa
    n data berhasil.",
    "SIMPAN
    DATA", javax.swing.JOption
    Pane.INFORMATION_MES
    SAGE);
    } catch(Exception e){
    e.printStackTrace();
    }
    }

    private void ubah(String
    value){
    String strValues =

    "NIS=""+txtNIS.getText()+"
    AND "+

```

```

"KdUjian="+txtKdUjian.get
Text()+" ";
    try{

PakeBersama.updateAND("ni
lai", "Nilai="+txtNilai.getTex
t()+""",strValues);

javax.swing.JOptionPane.sho
wMessageDialog(null, "Ubah
data berhasil.",
                "UBAH
DATA", javax.swing.JOption
Pane.INFORMATION_MES
SAGE);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

    private void
loadData(String sql, String[]
judulKolomUtkTabel){
        tblData =
PakeBersama.createJTable(sq
l,
judulKolomUtkTabel,lebarko
lom);

        sp.getViewPort().add(tblData
);

        if(tblData.getRowCount(>0)
{

tblData.setRowSelectionInter
val(0,0);
        }

tblData.addMouseListener(ne
w
java.awt.event.MouseAdapter
() {
            public void
mouseClicked(java.awt.event
.MouseEvent e) {
                strKodeygDiKlik =
""+tblData.getValueAt(tblDat
a.getSelectedRow(),0);

                if(e.getClickCount()==2){
                    view();

jTabbedPane1.setSelectedInd
ex(0);
                }
            }
        });

        panelTabel.removeAll();

```

```
        panelTabel.add(sp,  
java.awt.BorderLayout.CEN  
TER);  
    }  
  
    private void view(){  
  
PakeBersama.getData(txtKd  
Ujian,"nilai","KdUjian","NIS  
",strKodeygDiKlik);  
  
PakeBersama.getData(new  
javax.swing.JRadioButton[]  
{rdUAS,rdUTS},"ujian","Jen  
is","KdUjian",txtKdUjian.get  
Text());  
  
PakeBersama.getData(txtKd  
Matpel,"ujian  
", "KdMatPel", "KdUjian",txt  
KdUjian.getText());  
  
PakeBersama.getData(txtNm  
MatPel,"mat_pel","NmMatPe  
l","KdMatPel",txtKdMatpel.g  
etText());  
  
PakeBersama.getData(txtKd  
Kelas,"ujian", "KdKls", "KdUj  
ian",txtKdUjian.getText());  
  
PakeBersama.getData(txtNm  
Kelas,"Kelas","NmKls","Kd  
Kls",txtKdKelas.getText());  
  
PakeBersama.getData(txtThn  
Ajaran,"ujian","ThnAjrUjian"  
,"KdUjian",txtKdUjian.getTe  
xt());  
  
PakeBersama.getData(txtSem  
ester,"ujian","SmtUjian","Kd  
Ujian",txtKdUjian.getText());  
  
PakeBersama.getData(txtNIS,  
"nilai","NIS","NIS",strKodey  
gDiKlik);  
  
PakeBersama.getData(txtNm  
Siswa,"siswa","Nama","NIS"  
,txtNIS.getText());  
  
PakeBersama.getData(txtNila  
i,"nilai","Nilai","NIS="+txtN  
IS.getText()+" And  
KdUjian",txtKdUjian.getText  
());  
  
txtKdUjian.setEnabled(false);
```

```
txtNIS.setEnabled(false);

btnCariUjian.setEnabled(false);

btnCariSiswa.setEnabled(false);

btnSimpan.setEnabled(false);

btnUbah.setEnabled(true);

btnHapus.setEnabled(true);

jTabbedPane1.setFocusable(false);

txtNilai.requestFocus();
}
/*
private void cari(){
    String strJudulKolom[]
= {"NIS","Nama","Kode
Ujian","Kode
MatPel","MatPel",

        "Kode
Kelas","Kelas","Nilai","Tahun
Ajaran","Semester"};

    String strFields[] =
{"a.KdUjian","b.KdMatPel","
c.NmMatPel",

"a.NIS","d>Nama","a.Nilai"};

    String strSQL = "";
    String strKtKunci =
txtKtKunci.getText().replace(
"", "").replace("\\", "");

    if(rdMiripKtKunci.isSelected
()){

        strSQL ="SELECT
a.NIS, d>Nama, a.KdUjian,
b.KdMatPel, c.NmMatPel, "
+
        "e.KdKls,
e.NmKls, a.Nilai,
b.ThnAjrUjian, b.SmtUjian "
+
        "FROM nilai a,
ujian b, mat_pel c, siswa d,
kelas e " +
        "WHERE
a.KdUjian=b.KdUjian " +
```

```

                "AND a.NIS =
d.NIS " +
                "AND d.NIS =
e.NIS " +
                "AND b.KdKls =
e.KdKls " +
                "AND
b.KdMatPel= c.KdMatPel " +
                "AND
b.Jenis=""+cmbJenisUjianCar
i.getSelectedItem()+" " +
                "AND
e.KdKls=""+cmbKelasCari.ge
tSelectedItem()+" " +
                "AND
b.ThnAjrUjian=""+cmbThnAj
aran.getSelectedItem()+" " +
                "AND
b.SmtUjian=""+cmbSemester
Cari.getSelectedItem()+" " +
                "AND
"+strFields[cmbCariBer.getS
electedIndex()+" " +
                "LIKE
%" +strKtKunci+"%";

jTabbedPane1.setSelectedInd
ex(1);
                }else
                if(rdSesuaiKtKunci.isSelecte
d()){
                strSQL ="SELECT
a.NIS, d>Nama, a.KdUjian,
b.KdMatPel, c.NmMatPel, "
+
                "e.KdKls,
e.NmKls, a.Nilai,
b.ThnAjrUjian, b.SmtUjian "
+
                "FROM nilai a,
ujian b, mat_pel c, siswa d,
kelas e " +
                "WHERE
a.KdUjian=b.KdUjian " +
                "AND a.NIS =
d.NIS " +
                "AND d.NIS =
e.NIS " +
                "AND b.KdKls =
e.KdKls " +
                "AND
b.KdMatPel= c.KdMatPel " +
                "AND
b.Jenis=""+cmbJenisUjianCar
i.getSelectedItem()+" " +
                "AND
e.KdKls=""+cmbKelasCari.ge
tSelectedItem()+" " +

```



```

        "AND
b.ThnAjrUjian="" +cmbThnAjr
aran.getSelectedItemAt()+" " +
        "AND
b.SmtUjian="" +cmbSemester
Cari.getSelectedItemAt()+" " +
        "AND
"+strFields[cmbCariBer.getSe
lectedIndex()]+ " =
"+strKtKunci+""";
    }

    try{
        loadData(strSQL,
strJudulKolom);

if(tblData.getRowCount(>0)
{

javax.swing.JOptionPane.sho
wMessageDialog(null,
        "Ditemukan
"+tblData.getRowCount()+
data.",

"PENCARIAN",javax.swing.
OptionPane.INFORMATIO
N_MESSAGE);
    }else{

javax.swing.JOptionPane.sho
wMessageDialog(null,
        "Data tidak
ditemukan!",

"PENCARIAN",javax.swing.
OptionPane.WARNING_M
ESSAGE);
    }
    }catch(Exception e){
        e.printStackTrace();
    }
}
}
}

private void reset(){
// setCmbKelas();
loadData("SELECT
a.NIS, d>Nama, a.KdUjian,
b.KdMatPel,
c.NmMatPel,b.KdKls, " +
        "e.NmKls, a.Nilai,
b.ThnAjrUjian, b.SmtUjian "
+
        "FROM nilai a,
ujian b, mat_pel c, siswa d,
kelas e " +
        "WHERE
a.KdUjian = b.KdUjian " +

```

```
        "AND b.KdMatPel
= c.KdMatPel " +
        "AND b.KdKls =
e.KdKls " +
        "AND a.NIS =
d.NIS " +
        "Group BY
a.KdUjian, a.NIS",
        new String[]
{"NIS","Nama","Kode
Ujian","Kode
MatPel","MatPel","Kode
Kelas",
"Kelas","Nilai","Tahun
Ajaran","Semester"});

PakeBersama.clearText(new
javax.swing.JTextField[]
    {txtKdUjian,
txtKdMatpel, txtNmMatPel,
txtKdKelas,txtNmKelas,
txtNIS,txtNmSiswa,
    txtNilai,
txtThnAjaran,txtSemester});

buttonGroup2.clearSelection(
);

        rdUAS.setEnabled(true);
        rdUTS.setEnabled(true);

        btnSimpan.setEnabled(true);
        btnUbah.setEnabled(false);
        btnHapus.setEnabled(false);
        btnCariUjian.setEnabled(true
);
        btnCariSiswa.setEnabled(true
);
        jTabbedPane1.setFocusable(f
alse);
        txtNIS.setEnabled(true);
        //
        cmbThnAjaran.setSelectedIte
m(""+getTanggal("yyyy")+"/
"+(Integer.parseInt(getTangg
al("yyyy))+1));

        txtKdUjian.requestFocus();
    }

    private String
getTanggal(String format){
        java.util.Date d = new
java.util.Date();

        java.text.SimpleDateFormat
sdf = new
```

```

java.text.SimpleDateFormat(f
ormat,

java.util.Locale.getDefault());
    String strTgl =
""+sdf.format(d);

    return strTgl;
}

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

        buttonGroup1 = new
javax.swing.ButtonGroup();
        buttonGroup2 = new
javax.swing.ButtonGroup();
        jTabbedPane1 = new
javax.swing.JTabbedPane();

        jPanel2 = new
javax.swing.JPanel();
        jPanel1 = new
javax.swing.JPanel();
        lbl2 = new
javax.swing.JLabel();
        txtKdUjian = new
javax.swing.JTextField();
        lbl3 = new
javax.swing.JLabel();
        txtNIS = new
javax.swing.JTextField();
        lbl4 = new
javax.swing.JLabel();
        txtNilai = new
javax.swing.JTextField();
        lbl7 = new
javax.swing.JLabel();
        btnCariUjian = new
javax.swing.JButton();
        lbl9 = new
javax.swing.JLabel();
        txtNmSiswa = new
javax.swing.JTextField();
        btnCariSiswa = new
javax.swing.JButton();
        lbl10 = new
javax.swing.JLabel();
        lblKelas = new
javax.swing.JLabel();
        txtKdKelas = new
javax.swing.JTextField();

```

```
txtSemester = new
javax.swing.JTextField();
txtThnAjaran = new
javax.swing.JTextField();
lbl6 = new
javax.swing.JLabel();
rdUTS = new
javax.swing.JRadioButton();
lbl5 = new
javax.swing.JLabel();
txtKdMatpel = new
javax.swing.JTextField();
txtNmMatPel = new
javax.swing.JTextField();
txtNmKelas = new
javax.swing.JTextField();
lblKelas2 = new
javax.swing.JLabel();
lblKelas4 = new
javax.swing.JLabel();
rdUAS = new
javax.swing.JRadioButton();
panelTombol = new
javax.swing.JPanel();
btnSimpan = new
javax.swing.JButton();
btnReset = new
javax.swing.JButton();
btnUbah = new
javax.swing.JButton();
btnHapus = new
javax.swing.JButton();

btnBatal = new
javax.swing.JButton();
jPanel3 = new
javax.swing.JPanel();
panelTabel = new
javax.swing.JPanel();
jLabel3 = new
javax.swing.JLabel();
jLabel1 = new
javax.swing.JLabel();

setClosable(true);
setIconifiable(true);
setTitle("FORM NILAI
UJIAN");
setFrameIcon(new
javax.swing.ImageIcon(getCl
ass().getResource("/gambar/c
lipboard_16.png"))); //
NOI18N
try {
    setSelected(true);
} catch
(java.beans.PropertyVetoExc
eption e1) {
    e1.printStackTrace();
}
setVisible(true);

getContentPane().setLayout(n
ull);
```

```
jTabbedPane1.setBackground  
(new java.awt.Color(198,  
255, 255));
```

```
jPanel2.setLayout(null);
```

```
jPanel1.setBorder(javax.swin  
g.BorderFactory.createTitled  
Border(null, "ENTRI DATA  
NILAI",  
javax.swing.border.TitledBor  
der.DEFAULT_JUSTIFICA  
TION,  
javax.swing.border.TitledBor  
der.DEFAULT_POSITION,  
new java.awt.Font("Tahoma",  
0, 11), new java.awt.Color(0,  
0, 255)); // NOI18N
```

```
jPanel1.setLayout(null);
```

```
lbl2.setText("Kode  
Ujian");
```

```
jPanel1.add(lbl2);
```

```
lbl2.setBounds(70, 80,  
130, 20);
```

```
txtKdUjian.addActionListener  
(new
```

```
java.awt.event.ActionListener  
() {
```

```
public void
```

```
actionPerformed(java.awt.eve  
nt.ActionEvent evt) {
```

```
txtKdUjianActionPerformed(  
evt);
```

```
}
```

```
});
```

```
txtKdUjian.addKeyListener(n  
ew
```

```
java.awt.event.KeyAdapter()
```

```
{
```

```
public void
```

```
keyReleased(java.awt.event.  
KeyEvent evt) {
```

```
txtKdUjianKeyReleased(evt);
```

```
}
```

```
public void
```

```
keyTyped(java.awt.event.Key  
Event evt) {
```

```
txtKdUjianKeyTyped(evt);
```

```
}
```

```
});
```

```
jPanel1.add(txtKdUjian);
```

```
txtKdUjian.setBounds(210,  
80, 100, 20);
```

```
    lbl3.setText("NIS");  
    jPanel1.add(lbl3);  
    lbl3.setBounds(70, 290,  
120, 20);
```

```
txtNIS.addActionListener(new  
w  
java.awt.event.ActionListener  
() {
```

```
    public void  
actionPerformed(java.awt.eve  
nt.ActionEvent evt) {
```

```
txtNISActionPerformed(evt);  
    }  
});
```

```
txtNIS.addKeyListener(new  
java.awt.event.KeyAdapter()  
{
```

```
    public void  
keyReleased(java.awt.event.  
KeyEvent evt) {
```

```
txtNISKeyReleased(evt);  
    }
```

```
        public void  
keyTyped(java.awt.event.Key  
Event evt) {
```

```
txtNISKeyTyped(evt);  
        }  
});  
jPanel1.add(txtNIS);  
txtNIS.setBounds(210,  
290, 100, 20);
```

```
    lbl4.setText("Nilai");  
    jPanel1.add(lbl4);  
    lbl4.setBounds(70, 350,  
120, 20);
```

```
txtNilai.addKeyListener(new  
java.awt.event.KeyAdapter()  
{
```

```
    public void  
keyReleased(java.awt.event.  
KeyEvent evt) {
```

```
txtNilaiKeyReleased(evt);  
    }
```

```
    public void  
keyTyped(java.awt.event.Key  
Event evt) {
```

```
txtNilaiKeyTyped(evt);  
    }
```

```
});
jPanel1.add(txtNilai);
txtNilai.setBounds(210,
350, 100, 20);

lbl7.setText("Tahun
Ajaran");
jPanel1.add(lbl7);
lbl7.setBounds(70, 230,
80, 20);

btnCariUjian.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/gambar/c
ari.PNG"))); // NOI18N

btnCariUjian.setMnemonic('
C');

btnCariUjian.setHorizontalTe
xtPosition(javax.swing.Swing
Constants.RIGHT);

btnCariUjian.addActionListener(new
java.awt.event.ActionListener
() {
    public void
actionPerformed(java.awt.eve
nt.ActionEvent evt) {

        btnCariUjianActionPerformed(evt);
    }
});

jPanel1.add(btnCariUjian);

btnCariUjian.setBounds(320,
80, 30, 20);

lbl9.setText("Nama
Siswa");
jPanel1.add(lbl9);
lbl9.setBounds(70, 320,
120, 20);

txtNmSiswa.setEnabled(false
);

jPanel1.add(txtNmSiswa);

txtNmSiswa.setBounds(210,
320, 140, 20);

btnCariSiswa.setIcon(new
```