

LAMPIRAN

1. Source Code Login

```
namespace Skripsi
{
    4 references
    public partial class Login : Form
    {
        1 reference
        public Login()
        {
            InitializeComponent();
        }

        1 reference
        private void button1_Click(object sender, EventArgs e)
        {
            ceklogin();
        }

        1 reference
        public void ceklogin()
        {
            if(tbusername.Text == "")
            {
                MessageBox.Show("Username Tidak Boleh Kosong!");
            }
            else if(tbpas.Text == "")
            {
                MessageBox.Show("Password Tidak Boleh Kosong!");
            }
            else
            {
                koneksi();
            }
        }
    }

    private void Login_Load(object sender, EventArgs e)
    {
    }

    1 reference
    public void koneksi()
    {
        string connetionString = null;
        SqlConnection connection;
        SqlCommand command;
        string sql = "select username from login where username = '" + tbusername.Text + "' and password = '" + tbpas.Text + "'";
        SqlDataReader dataReader;
        connetionString = "Data Source=MSI;Initial Catalog=Perpustakaan;User ID=sa;Password=awajanganlupa";
        connection = new SqlConnection(connetionString);
        try
        {
            connection.Open();
            command = new SqlCommand(sql, connection);
            dataReader = command.ExecuteReader();
            if (dataReader.Read())
            {
                MenuUtama tampil = new MenuUtama();
                tampil.Show();
                this.Hide();
            }
            else
            {
                MessageBox.Show("Login Gagal Coba Lagi");
            }
            dataReader.Close();
            command.Dispose();
            connection.Close();
        }
        catch(Exception ex)
        {
            MessageBox.Show("Koneksi Gagal");
        }
    }
}
}
```

2. Source Code Halaman Utama

```
namespace Skripsi
{
    5 references
    public partial class MenuUtama : Form
    {
        1 reference
        public MenuUtama()
        {
            InitializeComponent();
        }
        1 reference
        private void anggotaToolStripMenuItem_Click(object sender, EventArgs e)
        {
            LaporanPeminjaman tampil = new LaporanPeminjaman();
            tampil.Show();
        }
        1 reference
        private void tambahAnggotaToolStripMenuItem_Click(object sender, EventArgs e)
        {
            TambahAnggota tampil = new TambahAnggota();
            tampil.Show();
        }
        1 reference
        private void dataBukuToolStripMenuItem_Click(object sender, EventArgs e)
        {
            ViewDataPerpustakaan tampil = new ViewDataPerpustakaan(0);
            tampil.Show();
        }
        1 reference
        private void tambahDataBukuToolStripMenuItem_Click(object sender, EventArgs e)
        {
            DataBuku tampil = new DataBuku();
            tampil.Show();
        }
        1 reference
        private void peminjamanToolStripMenuItem_Click(object sender, EventArgs e)
        {
            Peminjaman tampil = new Peminjaman();
            tampil.Show();
        }
        1 reference
        private void pengembalianToolStripMenuItem_Click(object sender, EventArgs e)
        {
            Pengembalian tampil = new Pengembalian();
            tampil.Show();
        }
        1 reference
        private void laporanPengembalianToolStripMenuItem_Click(object sender, EventArgs e)
        {
            LaporanPengembalian tampil = new LaporanPengembalian();
            tampil.Show();
        }
        1 reference
        private void MenuUtama_Load(object sender, EventArgs e)
        {
        }
    }
}
```

3. Source Code Tambah Anggota

```
namespace Skripsi
{
    5 references
    public partial class TambahAnggota : Form
    {
        string connetionString = null;
        SqlConnection connection;
        SqlCommand command;
        SqlDataReader dataReader;
        bool ada = false;
        List<string> status;
        string stat;
        1 reference
        public TambahAnggota()
        {
            InitializeComponent();
            connectionString = "Data Source=MSI;Initial Catalog=Perpustakaan;User ID=sa;Password=awasjanganlupa";
            connection = new SqlConnection(connectionString);
            tbnama.Enabled = false;
            tbkelasjabatan.Enabled = false;
            btSave.Enabled = false;
            status = new List<string>();
            selectstatus();
            setstatus();
        }
        1 reference
        private void TambahAnggota_Load(object sender, EventArgs e)
        {
        }
        1 reference
        public void InsertAnggota()
        {
            try
            {
                connection.Open();
                string sql = "insert into Anggota values ('" + tbNISNIP.Text + "', '" + tbnama.Text + "', '" + tbkelasjabatan.Text + "', '" + cbStatus.Text + "')";
                SqlCommand cmd = new SqlCommand(sql, connection);
                cmd.ExecuteNonQuery();
                connection.Close();
                MessageBox.Show("Data Berhasil Dimasukan");
                refreshsiswa();
            }
            catch (Exception ex)
            {
                MessageBox.Show(ex.Message);
                MessageBox.Show("Gagal Memasukan Data");
            }
        }
    }
}
```

```
1 reference
public void selectstatus()
{
    connection.Open();
    string sql = "select status from Status";
    SqlCommand command = new SqlCommand(sql, connection);
    dataReader = command.ExecuteReader();
    while (dataReader.Read())
    {
        status.Add(dataReader.GetString(0));
    }
    connection.Close();
}
1 reference
public void setstatus()
{
    cbStatus.DataSource = status;
}
1 reference
private void cbStatus_KeyUp(object sender, KeyEventArgs e)
{
}
1 reference
private void tbNIS_KeyUp(object sender, KeyEventArgs e)
{
    if (cekStatus().Equals("Siswa"))
    {
        if (tbNISNIP.TextLength >= 4)
        {
            tbnama.Enabled = true;
        }
        else
        {
            tbnama.Enabled = false;
        }
    }
    //ketika statusnya guru
    else
    {
        if (tbNISNIP.TextLength >= 18)
        {
            tbnama.Enabled = true;
        }
        else
        {
            tbnama.Enabled = false;
        }
    }
}
}
```

```

1 reference
private void tbNIS_KeyPress(object sender, KeyPressEventArgs e)
{
    if (!char.IsControl(e.KeyChar) && !char.IsDigit(e.KeyChar) && (e.KeyChar != '.'))
    {
        e.Handled = true;
    }
}
1 reference
public void CekNis()
{
    try
    {
        connection.Open();
        string sql = "select NIS_NIP from Anggota where NIS_NIP = ('" + tbNISNIP.Text + "')";
        SqlCommand command = new SqlCommand(sql, connection);
        dataReader = command.ExecuteReader();
        if (dataReader.Read())
        {
            connection.Close();
            MessageBox.Show("NIS / NIP Sudah Digunakan!");
        }
        else
        {
            connection.Close();
            InsertAnggota();
        }
    }
    catch (Exception x)
    {
        string err = x.Message;
    }
}
1 reference
private void tbnamasiswa_KeyPress(object sender, KeyPressEventArgs e)
{
    // e.Handled = !(char.IsLetter(e.KeyChar) || e.KeyChar == (char)Keys.Back);
}
1 reference
private void tbnamasiswa_KeyUp(object sender, KeyEventArgs e)
{
    if (tbnama.TextLength >= 3)
    {
        tbkelasjabatan.Enabled = true;
    }
    else
    {
        tbkelasjabatan.Enabled = false;
    }
}

```

```

1 reference
private void tbkelas_KeyUp(object sender, KeyEventArgs e)
{
    if (tbkelasjabatan.TextLength >= 1)
    {
        btSave.Enabled = true;
    }
    else
    {
        btSave.Enabled = false;
    }
}
1 reference
void refreshsiswa()
{
    cbStatus.Text = "";
    tbNISNIP.Text = "";
    tbnama.Text = "";
    tbkelasjabatan.Text = "";
    tbnama.Enabled = false;
    tbkelasjabatan.Enabled = false;
    btSave.Enabled = false;
}
1 reference
private void button1_Click(object sender, EventArgs e)
{
    CekNis();
}
1 reference
private void button2_Click(object sender, EventArgs e)
{
    this.Dispose();
}
2 references
public string cekStatus()
{
    stat = cbStatus.Text;
    return stat;
}

```

```

1 reference
private void tbNISNIP_Enter(object sender, EventArgs e)
{
    if (cekStatus().Equals("Siswa"))
    {
        tbNISNIP.MaxLength = 4;
    }
    else
    {
        tbNISNIP.MaxLength = 18;
    }
}

```

```

1 reference
private void tabPage1_Click(object sender, EventArgs e)
{
}

```

```

}
}

```

4. Source Code Tambah Buku

```

namespace Skripsi
{
    5 references
    public partial class DataBuku : Form
    {
        string connetionString = null;
        SqlConnection connection;
        SqlCommand command;
        SqlDataReader dataReader;
        bool ada = false;
        1 reference
        public DataBuku()
        {
            InitializeComponent();
            connetionString = "Data Source=MSI;Initial Catalog=Perpustakaan;User ID=sa;Password=awasjanganlupa";
            connection = new SqlConnection(connetionString);
            tbjudul.Enabled = false;
            tbpengarang.Enabled = false;
            tbpenerbit.Enabled = false;
            tbtahun.Enabled = false;
            tbStok.Enabled = false;
            btTambah.Enabled = false;
        }
        1 reference
        private void DataBuku_Load(object sender, EventArgs e)
        {
        }
        2 references
        public void insertbuku()
        {
            try
            {
                connection.Open();
                string sql = "insert into DataBuku values ('" + tbkodebuku.Text + "', '" + tbjudul.Text + "', '" + tbpengarang.Text + "',
                SqlCommand cmd = new SqlCommand(sql, connection);
                cmd.ExecuteNonQuery();
                connection.Close();
                MessageBox.Show("Data Berhasil Dimasukan");
                refresh();
            }
            catch (Exception ex)
            {
                MessageBox.Show(ex.Message);
                MessageBox.Show("Gagal Memasukan Data");
            }
        }
    }
}

```

```

1 reference
private void button1_Click(object sender, EventArgs e)
{
    insertbuku();
}
1 reference
private void button2_Click(object sender, EventArgs e)
{
    this.Dispose();
}
0 references
public void cekDatabuku()
{
    connection.Open();
    string sqlbuku = "select kodebuku from DataBuku where kodebuku = ('" + tbkodebuku.Text + "'";
    SqlCommand command = new SqlCommand(sqlbuku, connection);
    dataReader = command.ExecuteReader();
    if (dataReader.Read())
    {
        connection.Close();
        MessageBox.Show("Kode Buku Sudah Digunakan!");
    }
    else
    {
        connection.Close();
        insertbuku();
    }
}
1 reference
private void tbkodebuku_KeyUp(object sender, KeyEventArgs e)
{
    if (e.KeyCode != Keys.Delete && e.KeyCode != Keys.Back)
    {
        if (tbkodebuku.TextLength == 4 || tbkodebuku.TextLength == 7)
        {
            tbkodebuku.Text += "/";
            tbkodebuku.SelectionStart = tbkodebuku.Text.Length;
            tbkodebuku.SelectionLength = 0;
        }
    }
    if (tbkodebuku.TextLength >= 4)
    {
        tbjudul.Enabled = true;
    }
    else
    {
        tbjudul.Enabled = false;
    }
}

```



```
1 reference
private void tbkodebuku_KeyPress(object sender, KeyPressEventArgs e)
{
    if (e.KeyChar != 8 && e.KeyChar != (char)Keys.Back)
    {
        if (tbkodebuku.TextLength >= 0 && tbkodebuku.TextLength < 4)
        {
            if (!char.IsDigit(e.KeyChar))
            {
                e.Handled = true;
            }
        }
        else if (tbkodebuku.TextLength > 4 && tbkodebuku.TextLength < 7)
        {
        }
        else if (tbkodebuku.TextLength > 7 && tbkodebuku.TextLength < 10)
        {
        }
        else
        {
            e.Handled = true;
        }
    }
}
1 reference
private void tbjudul_KeyUp(object sender, KeyEventArgs e)
{
    if (tbjudul.TextLength >= 3)
    {
        tbpengarang.Enabled = true;
    }
    else
    {
        tbpengarang.Enabled = false;
    }
}
1 reference
private void tbpengarang_KeyPress(object sender, KeyPressEventArgs e)
{
    // e.Handled = !(char.IsLetter(e.KeyChar) || e.KeyChar == (char)Keys.Back);
}
}
```

```
1 reference
private void tbpengarang_KeyUp(object sender, KeyEventArgs e)
{
    if (tbpengarang.TextLength >= 3)
    {
        tbpenerbit.Enabled = true;
    }
    else
    {
        tbpenerbit.Enabled = false;
    }
}
1 reference
private void tbpenerbit_KeyUp(object sender, KeyEventArgs e)
{
    if (tbpenerbit.TextLength >= 3)
    {
        tbtahun.Enabled = true;
    }
    else
    {
        tbtahun.Enabled = false;
    }
}
1 reference
private void tbtahun_KeyPress(object sender, KeyPressEventArgs e)
{
    if (!char.IsControl(e.KeyChar) && !char.IsDigit(e.KeyChar) && (e.KeyChar != '.'))
    {
        e.Handled = true;
    }
}
1 reference
private void tbtahun_KeyUp(object sender, KeyEventArgs e)
{
    if (tbtahun.TextLength >= 4)
    {
        tbStok.Enabled = true;
    }
    else
    {
        tbStok.Enabled = false;
    }
}
}
```

```
-
3 private void tbStok_KeyPress(object sender, KeyPressEventArgs e)
  {
    if (!char.IsControl(e.KeyChar) && !char.IsDigit(e.KeyChar) && (e.KeyChar != '.'))
    {
      e.Handled = true;
    }
  }
-
3 private void tbStok_KeyUp(object sender, KeyEventArgs e)
  {
    if (tbStok.Text.Length >= 1)
    {
      btTambah.Enabled = true;
    }
    else
    {
      btTambah.Enabled = false;
    }
  }
-
3 void refresh()
  {
    tbKodebuku.Text = "";
    tbJudul.Text = "";
    tbPengarang.Text = "";
    tbPenerbit.Text = "";
    tbTahun.Text = "";
    tbStok.Text = "";
    tbJudul.Enabled = false;
    tbPengarang.Enabled = false;
    tbPenerbit.Enabled = false;
    tbTahun.Enabled = false;
    tbStok.Enabled = false;
    btTambah.Enabled = false;
  }
-
}
}
```

5. Source Code Tambah Data Peminjaman

```

namespace Skripsi
{
    5 references
    public partial class Peminjaman : Form
    {
        string connetionString = null;
        SqlConnection connection;
        SqlCommand command;
        SqlDataReader dataReader;
        List<int> transaksi;
        List<string> status;
        List<string> NIPNIS;
        List<string> buku;
        bool adastok;
    1 reference
    public Peminjaman()
    {
        InitializeComponent();
        connetionString = "Data Source=MSI;Initial Catalog=Perpustakaan;User ID=sa;Password=awasjanganlupa";
        connection = new SqlConnection(connetionString);
        transaksi = new List<int>();
        NIPNIS = new List<string>();
        status = new List<string>();
        buku = new List<string>();
        gettransaksi();
        settransaksi();
        getBuku();
        getstatus();
        cbStatus.DataSource = status;
        cbNisNip.DataSource = NIPNIS;
        cbKodeBuku.DataSource = buku;
        adastok = false;
    }

    1 reference
    private void button2_Click(object sender, EventArgs e)
    {
        this.Dispose();
    }

    1 reference
    private void Peminjaman_Load(object sender, EventArgs e)
    {
        }

    1 reference
    public void insertpinjam()
    {
        if (cekstok() == true)
        {
            try
            {
                connection.Open();
                string sql = "insert into Transaksi (status, NIS_NIP, kodebuku, tanggalpinjam) values ('" + cbStatus.Text + "',
                SqlCommand cmd = new SqlCommand(sql, connection);
                cmd.ExecuteNonQuery();
                connection.Close();
                MessageBox.Show("Data Berhasil Dimasukan");
            }
            catch (Exception ex)
            {
                MessageBox.Show(ex.Message);
                MessageBox.Show("Gagal Memasukan Data");
            }
            updatestokbuku();
        }
        else
        {
            MessageBox.Show("Stok Buku Sedang Kosong!");
        }
    }
}

```

```

//ANGGOTA

1 reference
public void getstatus()
{
    connection.Open();
    string sql = "select status from Status";
    SqlCommand command = new SqlCommand(sql, connection);
    dataReader = command.ExecuteReader();
    while (dataReader.Read())
    {
        status.Add(dataReader.GetString(0));
    }
    connection.Close();
}
0 references
public void setstatus()
{
    cbStatus.DataSource = status;
}
1 reference
public void getNISNIP()
{
    connection.Open();
    string sql = "select NIS_NIP from Anggota where status =" + cbStatus.Text +"";
    SqlCommand command = new SqlCommand(sql, connection);
    dataReader = command.ExecuteReader();
    while (dataReader.Read())
    {
        NIPNIS.Add(dataReader.GetString(0));
    }
    connection.Close();
}
0 references
public void setNISNIP()
{
}

//TRANSAKSI

1 reference
public void gettransaksi()
{
    transaksi = new List<int>();
    connection.Open();
    string sql = "select notransaksi from Transaksi";
    SqlCommand command = new SqlCommand(sql, connection);
    dataReader = command.ExecuteReader();
    while (dataReader.Read())
    {
        transaksi.Add(dataReader.GetInt32(0));
    }
    connection.Close();
}
1 reference
public void settransaksi()
{
    tbtransaksi.Text = (transaksi[transaksi.Count - 1] + 1).ToString();
}

```

```

//BUKU

1 reference
public void getBuku()
{
    connection.Open();
    string sql = "select kodebuku from DataBuku";
    SqlCommand command = new SqlCommand(sql, connection);
    dataReader = command.ExecuteReader();
    while (dataReader.Read())
    {
        buku.Add(dataReader.GetString(0));
    }
    connection.Close();
}

1 reference
public bool cekstok()
{
    try
    {
        connection.Open();
        string sqlstok = "select stok from DataBuku where kodebuku = '" + cbKodeBuku.Text + "'";
        SqlCommand command = new SqlCommand(sqlstok, connection);
        int stok = Convert.ToInt32(command.ExecuteScalar());
        if (stok == 0)
        {
            adastok = false;
        }
        else
        {
            adastok = true;
        }
        connection.Close();
    }
    catch
    {
        MessageBox.Show("Error!");
    }
    return adastok;
}

1 reference
public void updatestokbuku()
{
    try
    {
        connection.Open();
        string sqlstok = "update DataBuku set stok = stok -1 where kodebuku = '" + cbKodeBuku.Text + "'";
        SqlCommand command = new SqlCommand(sqlstok, connection);
        command.ExecuteReader();
        connection.Close();
    }
    catch
    {
        MessageBox.Show("Error!");
    }
}

1 reference
private void button1_Click(object sender, EventArgs e)
{
    insertpinjam();
}

1 reference
private void cbStatus_TextChanged(object sender, EventArgs e)
{
    NIPNIS = new List<string>();
    getNISNIP();
    cbNisNip.DataSource = NIPNIS;
}
}
}

```

6. Source Code Tambah Data Pengembalian

```

namespace Skripsi
{
    5 references
    1 public partial class Pengembalian : Form
    {
        string connetionString = null;
        SqlConnection connection;
        SqlCommand command;
        SqlDataReader dataReader;
        bool dikembalikan;
        List<int> notransaksi;
        string kodeanggota;
        string status;
        string kodebuku;
        DateTime tanggalpinjam;
    1 reference
    1 public Pengembalian()
    {
        InitializeComponent();
        connetionString = "Data Source=MSI;Initial Catalog=Perpustakaan;User ID=sa;Password=awasjanganlupa";
        connection = new SqlConnection(connetionString);
        notransaksi = new List<int>();
        getNotransaksi();
    }

    1 reference
    1 private void button2_Click(object sender, EventArgs e)
    {
        this.Dispose();
    }

    1 reference
    1 private void Pengembalian_Load(object sender, EventArgs e)
    {
    }

    1 reference
    1 public void getNotransaksi()
    {
        connection.Open();
        string sqlkembali = "select notransaksi from Transaksi";
        SqlCommand command = new SqlCommand(sqlkembali, connection);
        dataReader = command.ExecuteReader();
        while (dataReader.Read())
        {
            notransaksi.Add (dataReader.GetInt32(0));
        }
        connection.Close();
        cbNoTransaksi.DataSource = notransaksi;
    }
}

```

```

1 reference
public void setDataPengembalian(string kode)
{
    connection.Open();
    string sqlkembali = "select * from Transaksi where notransaksi = '" + kode + "'";
    SqlCommand command = new SqlCommand(sqlkembali, connection);
    dataReader = command.ExecuteReader();
    while (dataReader.Read())
    {
        status = dataReader.GetString(1);
        kodeanggota = dataReader.GetString(2);
        kodebuku = dataReader.GetString(3);
        tanggalpinjam = dataReader.GetDateTime(4);
    }
    connection.Close();
    tbStatus.Text = status;
    tbNisNip.Text = kodeanggota.ToString();
    tbKodeBuku.Text = kodebuku;
    dtpPinjam.Value = tanggalpinjam;
}

1 reference
private void cbNoPinjam_SelectedIndexChanged(object sender, EventArgs e)
{
    setDataPengembalian(cbNoTransaksi.Text);
}

1 reference
public void insertkembali()
{
    try
    {
        connection.Open();
        string sqlkembali = "update Transaksi set tanggalkembali = '" + dtpKembali.Value + "' where notransaksi = '" + cbNoTransaksi.Text + "'";
        SqlCommand cmd = new SqlCommand(sqlkembali, connection);
        cmd.ExecuteNonQuery();
        cekbatas();
        connection.Close();
    }
    catch (Exception ex)
    {
        MessageBox.Show("Buku Sudah Dikembalikan!");
        string err = ex.Message;
        connection.Close();
    }
    updatestokbuku();
}

public void updatestokbuku()
{
    try
    {
        connection.Open();
        string sqlstok = "update DataBuku set stok = stok +1 where kodebuku = '" + tbKodeBuku.Text + "'";
        SqlCommand command = new SqlCommand(sqlstok, connection);
        command.ExecuteNonQuery();
        connection.Close();
    }
    catch
    {
        MessageBox.Show("Error!");
    }
}

1 reference
public void cekbatas()
{
    DateTime tglpinjam = dtpPinjam.Value;
    DateTime tglkembali = dtpKembali.Value;
    TimeSpan ts = new TimeSpan();
    ts = tglkembali.Subtract(tglpinjam);
    if(ts.Days > 7)
    {
        int denda = (ts.Days - 7) * 200;
        MessageBox.Show("Anda Sudah Lewat Dari Batas Peminjaman Denda Sebesar Rp." + denda);
    }
    else
    {
        MessageBox.Show("Anda Tidak Terkena Denda Apapun");
    }
}

```



```
1 reference
3 public bool cekBukuKembali()
{
    try
    {
        connection.Open();
        string sql = "select tanggalkembali from Transaksi where notransaksi = " + cbNoTransaksi.Text + "";
        SqlCommand cmd = new SqlCommand(sql, connection);
        string tanggalkembali = cmd.ExecuteScalar().ToString();
        connection.Close();
        if (tanggalkembali != "")
        {
            dikembalikan = true;
            MessageBox.Show("Buku Sudah Dikembalikan!");
        }
        else
        {
            dikembalikan = false;
        }
    }
    catch (Exception ex)
    {
        connection.Close();
    }
    return dikembalikan;
}
1 reference
3 private void button1_Click(object sender, EventArgs e)
{
    cekBukuKembali();
    if(dikembalikan == false)
    {
        insertkembali();
    }
}
}
```

7. Source Code View Data

```
namespace Skripsi
{
    5 references
    public partial class ViewDataPerpustakaan : Form
    {
        string connetionString = null;
        SqlConnection connection;
        SqlCommand command;
        SqlDataReader dataReader;
        private int index;
        List<string> NISNIP;
        string nama;
        string kelasjabatan;
        string status;
        1 reference
        public ViewDataPerpustakaan(int index)
        {
            InitializeComponent();
            connetionString = "Data Source=MSI;Initial Catalog=Perpustakaan;User ID=sa;Password=awasjanganlupa";
            connection = new SqlConnection(connetionString);
            NISNIP = new List<string>();
            getEditAnggota();
            isiAnggota();
            isiBuku();
            isiTransaksi();
        }
        1 reference
        private void ViewDataPerpustakaan_Load(object sender, EventArgs e)
        {
        }
    }
}
```

```

//Anggota
1 reference
public void getEditAnggota()
{
    connection.Open();
    string sql = "select NIS_NIP from Anggota";
    SqlCommand command = new SqlCommand(sql, connection);
    dataReader = command.ExecuteReader();
    while (dataReader.Read())
    {
        NISNIP.Add(dataReader.GetString(0));
    }
    connection.Close();
}
2 references
public void isiAnggota()
{
    DataSet dataSet = new DataSet();
    string sql = "Select * from Anggota";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVanggota.DataSource = dataSet.Tables[0].DefaultView;
    tabcontrol5.SelectTab(0);
}
1 reference
public void Carianggota()
{
    DataSet dataSet = new DataSet();
    string sql = "Select * from Anggota where NIS_NIP like '" + tbcarianggota.Text + "%'";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVanggota.DataSource = dataSet.Tables[0].DefaultView;
    tabcontrol5.SelectTab(0);
}
1 reference
private void button1_Click(object sender, EventArgs e)
{
    Carianggota();
}

1 reference
private void btbatal_Click(object sender, EventArgs e)
{
    this.Dispose();
}
1 reference
public void UpdateAnggota(string namasiswa, string kelas, string status)
{
    try
    {
        namasiswa = tbNama.Text;
        kelas = tbkelasjabatan.Text;
        status = tbStatus.Text;
        connection.Open();
        string sql = "update Anggota set nama = '" + namasiswa + "', kelas_jabatan = '" + kelas + "',";
        SqlCommand command = new SqlCommand(sql, connection);
        command.ExecuteNonQuery();
        MessageBox.Show("Data Berhasil Di Edit");
        connection.Close();
        refreshanggota();
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
        MessageBox.Show("Gagal Memasukan Data");
        connection.Close();
    }
}
}

```

```

1 reference
public void hapusAnggota(string NIS)
{
    try
    {
        connection.Open();
        string sql = "delete from Anggota where NIS_NIP = '" + NIS + "'";
        SqlCommand command = new SqlCommand(sql, connection);
        command.ExecuteNonQuery();
        MessageBox.Show("Data Berhasil Dihapus");
        connection.Close();
        refreshanggota();
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
        MessageBox.Show("Gagal Menghapus Data");
        connection.Close();
    }
}
1 reference
private void button1_Click_1(object sender, EventArgs e)
{
    UpdateAnggota(tbNama.Text, tbkelasjabatan.Text, tbStatus.Text);
}
1 reference
private void button3_Click(object sender, EventArgs e)
{
    hapusAnggota(tbNISNIP.Text);
}
2 references
public void refreshanggota()
{
    tbNISNIP.Text = "";
    tbNama.Text = "";
    tbkelasjabatan.Text = "";
    tbStatus.Text = "";
    isiAnggota();
}
1 reference
private void GVanggota_CellClick(object sender, DataGridViewCellEventArgs e)
{
    DataGridViewRow row = GVanggota.Rows[e.RowIndex];
    tbNISNIP.Text = row.Cells[0].Value.ToString();
    tbNama.Text = row.Cells[1].Value.ToString();
    tbkelasjabatan.Text = row.Cells[2].Value.ToString();
    tbStatus.Text = row.Cells[3].Value.ToString();
}

```

```

//Buku
2 references
public void isiBuku()
{
    DataSet dataSet = new DataSet();
    string sql = "Select * from DataBuku";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVbuku.DataSource = dataSet.Tables[0].DefaultView;
    tabcontrol5.SelectTab(1);
}
1 reference
public void CariBuku()
{
    DataSet dataSet = new DataSet();
    string sql = "Select * from DataBuku where judul like '" + tbCaribuku.Text + "%'";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVbuku.DataSource = dataSet.Tables[0].DefaultView;
    tabcontrol5.SelectTab(1);
}
1 reference
private void btCaribuku_Click(object sender, EventArgs e)
{
    CariBuku();
}
1 reference
private void btBatal3_Click(object sender, EventArgs e)
{
    this.Dispose();
}

1 reference
public void UpdateBuku(string judul, string pengarang, string penerbit, string tahun, string stok)
{
    try
    {
        judul = tbJudul.Text;
        pengarang = tbPengarang.Text;
        penerbit = tbPenerbit.Text;
        tahun = tbTahun.Text;
        connection.Open();
        string sqleditbuku = "update DataBuku set judul = '" + judul + "', pengarang = '" + pengarang + "', penerbit = '" + pe
        SqlCommand command = new SqlCommand(sqleditbuku, connection);
        command.ExecuteNonQuery();
        MessageBox.Show("Data Berhasil Di Edit");
        connection.Close();
        refreshbuku();
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
        MessageBox.Show("Gagal Merubah Data");
    }
}
1 reference
public void HapusBuku(string kodebuku)
{
    try
    {
        connection.Open();
        string sqlhapusbuku = "delete from DataBuku where kodebuku = '" + tbKodebuku.Text + "'";
        SqlCommand command = new SqlCommand(sqlhapusbuku, connection);
        command.ExecuteNonQuery();
        MessageBox.Show("Data Berhasil Dihapus");
        connection.Close();
        refreshbuku();
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
        MessageBox.Show("Gagal Menghapus Data");
    }
}

```

```

private void button5_Click(object sender, EventArgs e)
{
    UpdateBuku(tbJudul.Text, tbPengarang.Text, tbPenerbit.Text, tbTahun.Text, tbStok.Text);
}
1 reference
private void button4_Click(object sender, EventArgs e)
{
    HapusBuku(tbKodebuku.Text);
}
2 references
public void refreshbuku()
{
    tbKodebuku.Text = "";
    tbJudul.Text = "";
    tbPengarang.Text = "";
    tbPenerbit.Text = "";
    tbTahun.Text = "";
    tbStok.Text = "";
    isiBuku();
}
1 reference
private void GVbuku_CellClick(object sender, DataGridViewCellEventArgs e)
{
    DataGridViewRow row = GVbuku.Rows[e.RowIndex];
    tbKodebuku.Text = row.Cells[0].Value.ToString();
    tbJudul.Text = row.Cells[1].Value.ToString();
    tbPengarang.Text = row.Cells[2].Value.ToString();
    tbPenerbit.Text = row.Cells[3].Value.ToString();
    tbTahun.Text = row.Cells[4].Value.ToString();
    tbStok.Text = row.Cells[5].Value.ToString();
}
0 references
private void btCancel6_Click(object sender, EventArgs e)
{
    this.Dispose();
}

//Transaksi
1 reference
public void isiTransaksi()
{
    DataSet dataSet = new DataSet();
    string sql = "select * from Transaksi";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVTransaksi.DataSource = dataSet.Tables[0].DefaultView;
    tabcontrol5.SelectTab(2);
}
1 reference
public void CariTransaksi()
{
    DataSet dataSet = new DataSet();
    string sql = "Select * from Transaksi where notransaksi like '" + tbTransaksi.Text + "%'";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVTransaksi.DataSource = dataSet.Tables[0].DefaultView;
    tabcontrol5.SelectTab(2);
}
1 reference
private void btCancel_Click_1(object sender, EventArgs e)
{
    this.Dispose();
}
1 reference
private void btcaritransaksi_Click_1(object sender, EventArgs e)
{
    CariTransaksi();
}

```

```

1 reference
public void ShowPeminjamansemua()
{
    DataSet dataSet = new DataSet();
    string sql = "Select * from Transaksi where tanggalkembali is null";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVTransaksi.DataSource = dataSet.Tables[0].DefaultView;
}
1 reference
public void ShowPengembaliansemua()
{
    DataSet dataSet = new DataSet();
    string sql = "Select * from Transaksi where tanggalkembali is not null";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVTransaksi.DataSource = dataSet.Tables[0].DefaultView;
}
2 references
public void ShowKeterlambatan()
{
    DataSet dataSet = new DataSet();
    string sql = "select * from Transaksi where datepart(D, (GETDATE() - tanggalpinjam)) > 7 ";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVTransaksi.DataSource = dataSet.Tables[0].DefaultView;
}
2 references
public void showTidakTerlambat()
{
    DataSet dataSet = new DataSet();
    string sql = "select * from Transaksi where datepart(D, (GETDATE() - tanggalpinjam)) <= 7 ";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVTransaksi.DataSource = dataSet.Tables[0].DefaultView;
}
2 references
public void PinjamTerlambat()
{
    DataSet dataSet = new DataSet();
    string sql = "select * from Transaksi where datediff(DD, tanggalpinjam, getdate()) > 7 and tanggalkembali is null";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVTransaksi.DataSource = dataSet.Tables[0].DefaultView;
}
2 references
public void KembaliTerlambat()
{
    DataSet dataSet = new DataSet();
    string sql = "select * from Transaksi where datediff(DD, tanggalpinjam, tanggalkembali) > 7 and tanggalkembali is not null";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVTransaksi.DataSource = dataSet.Tables[0].DefaultView;
}
2 references
public void pinjamtidakterlambat()
{
    DataSet dataSet = new DataSet();
    string sql = "select * from Transaksi where datediff(DD, tanggalpinjam, getdate()) <= 7 and tanggalkembali is null";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVTransaksi.DataSource = dataSet.Tables[0].DefaultView;
}
2 references
public void kembalitudakterlambat()
{
    DataSet dataSet = new DataSet();
    string sql = "select * from Transaksi where datediff(DD, tanggalpinjam, tanggalkembali) <= 7 and tanggalkembali is not null";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVTransaksi.DataSource = dataSet.Tables[0].DefaultView;
}

```

```

public void ShowAll()
{
    DataSet dataSet = new DataSet();
    string sql = "select * from Transaksi";
    SqlDataAdapter dataAdapter = new SqlDataAdapter(sql, connection);
    dataAdapter.Fill(dataSet);

    GVTransaksi.DataSource = dataSet.Tables[0].DefaultView;
}
1 reference
private void CBStatusBuku_SelectedIndexChanged(object sender, EventArgs e)
{
    if (CBStatusBuku.SelectedIndex == 0 && RBTerlambat.Checked == true)
    {
        PinjamTerlambat();
    }
    else if (CBStatusBuku.SelectedIndex == 1 && RBTerlambat.Checked == true)
    {
        KembaliTerlambat();
    }
    else if (CBStatusBuku.SelectedIndex == 0 && RBTidakTerlambat.Checked == true)
    {
        pinjamtidakterlambat();
    }
    else if (CBStatusBuku.SelectedIndex == 1 && RBTidakTerlambat.Checked == true)
    {
        kembalitidakterlambat();
    }
    else if (CBStatusBuku.SelectedIndex == 0 && RBTidakTerlambat.Checked == false && RBTerlambat.Checked == false)
    {
        ShowPeminjamansemua();
    }
    else if (CBStatusBuku.SelectedIndex == 1 && RBTidakTerlambat.Checked == false && RBTerlambat.Checked == false)
    {
        ShowPengembaliansemua();
    }
    else if (CBStatusBuku.SelectedIndex == 2)
    {
        ShowAll();
    }
}
}

```