

## Kode Program Aplikasi Perpustakaan

- Form Login

```
Public Class FrmLogin
    Dim SQL As String
    Dim Proses As New ClsConnection
    Dim tblLogin As DataTable

    Sub Login()
        If KdAnggotaTxt.Text = "" Then KdAnggotaTxt.Focus() : Exit Sub
        If PswTxt.Text = "" Then PswTxt.Focus() : Exit Sub
        tblLogin = Proses.ExecuteQuery("Select * From TblPengguna Where kode_pengguna = '" & KdAnggotaTxt.Text & "' and password = '" & PswTxt.Text & "'")
        If tblLogin.Rows.Count = 0 Then
            MessageBox.Show("Login Gagal..!!", "Informasi", MessageBoxButtons.OK, MessageBoxIcon.Information)
            KdAnggotaTxt.Focus()
        Else
            FrmMainMenu.Text = KdAnggotaTxt.Text
            FrmMainMenu.Text = LevelTxt.Text
            Me.Hide()
            FrmMainMenu.Show()
        End If
    End Sub

    Private Sub KdPenggunaTxt_KeyPress(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyPressEventArgs) Handles KdAnggotaTxt.KeyPress
        If e.KeyChar = Chr(13) Then
            tblLogin = Proses.ExecuteQuery("Select * From TblPengguna Where kode_pengguna = '" & KdAnggotaTxt.Text & "'")
            If tblLogin.Rows.Count = 0 Then
                MessageBox.Show("Kode tidak ditemukan..!!", "Informasi", MessageBoxButtons.OK, MessageBoxIcon.Information)
                KdAnggotaTxt.Focus()
            Else
                LevelTxt.Text = tblLogin.Rows(0).Item("level")
                PswTxt.Focus()
            End If
        End If
    End Sub

    Private Sub PswTxt_KeyPress(ByVal sender As Object, ByVal e As System.Windows.Forms.KeyPressEventArgs) Handles PswTxt.KeyPress
        If e.KeyChar = Chr(13) Then
            Call Login()
        End If
    End Sub

    Private Sub BtnOk_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles OkBtn.Click
        Call Login()
    End Sub
End Class
```

- Form Main Menu

```
(FrmMainMenu Events) Load
Public Class FrmMainMenu
    Private Sub FrmMainMenu_Load(ByVal sender As Object, ByVal e As EventArgs) Handles MyBase.Load
        End Sub

    Private Sub ExitToolStripMenuItem_Click(ByVal sender As Object, ByVal e As EventArgs) Handles ExitToolStripMenuItem.Click
        Dim Tanya = MessageBox.Show("Apakah anda yakin keluar dari program ?", "Message", MessageBoxButtons.YesNo, MessageBoxIcon.Question)
        If Tanya = Windows.Forms.DialogResult.Yes Then
            End
        End If
    End Sub

    Private Sub AboutToolStripMenuItem_Click(ByVal sender As Object, ByVal e As EventArgs) Handles AboutAppToolStripMenuItem.Click
        FrmAbout.MdiParent = Me
        FrmAbout.Show()
    End Sub

    Private Sub TransaksiPeminjamanToolStripMenuItem_Click(ByVal sender As Object, ByVal e As EventArgs) Handles TransaksiToolStripMenuItem.Click
        FrmTransaksiPeminjaman.MdiParent = Me
        FrmTransaksiPeminjaman.Show()
    End Sub

    Private Sub BukuToolStripMenuItem_Click(ByVal sender As Object, ByVal e As EventArgs) Handles InputDataBukuToolStripMenuItem.Click
        FrmDataBuku.MdiParent = Me
        FrmDataBuku.Show()
    End Sub

    Private Sub AnggotaToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles AnggotaToolStripMenuItem.Click
        FrmPengguna.MdiParent = Me
        FrmPengguna.Show()
    End Sub

    Private Sub RegistrasiToolStripMenuItem_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles RegistrasiToolStripMenuItem.Click
        FrmDataAnggota.MdiParent = Me
        FrmDataAnggota.Show()
    End Sub
End Class
```

- Form Pengguna

```

FrmPengguna (Declarations)

Public Class FrmPengguna
    Dim SQL As String
    Dim Proses As New ClsConnection
    Dim tblPengguna As DataTable

    Sub Data_Record()
        tblPengguna = Proses.ExecuteQuery("select * from TblPengguna")
        DGPengguna.DataSource = tblPengguna
        DGPengguna.Columns(1).Width = 180
        DGPengguna.Columns(2).Visible = False
    End Sub

    Sub Kode_Otomatis()
        tblPengguna = Proses.ExecuteQuery("select * from TblPengguna order by kode_pengguna desc")
        If tblPengguna.Rows.Count = 0 Then
            KdAnggotaTxt.Text = "PGN-001"
        Else
            With tblPengguna.Rows(0)
                KdAnggotaTxt.Text = .Item("Kode_Pengguna")
            End With

            KdAnggotaTxt.Text = Val(Microsoft.VisualBasic.Mid(KdAnggotaTxt.Text, 5, 3)) + 1
            If Len(KdAnggotaTxt.Text) = 1 Then
                KdAnggotaTxt.Text = "PGN-00" & KdAnggotaTxt.Text & ""
            ElseIf Len(KdAnggotaTxt.Text) = 2 Then
                KdAnggotaTxt.Text = "PGN-0" & KdAnggotaTxt.Text & ""
            ElseIf Len(KdAnggotaTxt.Text) = 3 Then
                KdAnggotaTxt.Text = "PGN-" & KdAnggotaTxt.Text & ""
            End If
        End If
    End Sub

    Sub Bersih()
        KdAnggotaTxt.Enabled = True
        KdAnggotaTxt.Text = ""
        NmAnggotaTxt.Text = ""
        Call Kode_Otomatis()
        Call Data_Record()

        SaveBtn.Enabled = True
        HapusBtn.Enabled = True
        TutupBtn.Enabled = True
        KdAnggotaTxt.Enabled = False
        PasswordTxt.Enabled = True
    End Sub

    Private Sub FrmPengguna_Load(ByVal sender As Object, ByVal e As EventArgs) Handles MyBase.Load
        Left = 0
        Top = 0
        Call Bersih()
        LevelCbo.Items.Add("Perpustakaan")
        LevelCbo.Items.Add("Anggota")
    End Sub

    Private Sub FrmPengguna_Activated(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Activated
        Call Data_Record()
    End Sub

    Private Sub SimpanBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles SaveBtn.Click
        If NmAnggotaTxt.Text = "" Then NmAnggotaTxt.Focus() : Exit Sub
        If PasswordTxt.Text = "" Then PasswordTxt.Focus() : Exit Sub
        If LevelCbo.Text = "" Then LevelCbo.Focus() : Exit Sub

        SQL = "Insert Into TblPengguna Values ('" & KdAnggotaTxt.Text & "','" & NmAnggotaTxt.Text & "','" & PasswordTxt.Text & "','" & LevelCbo.Text & "')"
        Proses.ExecuteNonQuery(SQL)
        MessageBox.Show("Data baru telah ditambahkan..!!", "Saving success", MessageBoxButtons.OK, MessageBoxIcon.Information)
        Call Bersih()
    End Sub

    Private Sub HapusBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles HapusBtn.Click
        SQL = "Delete From TblPengguna Where Kode_Pengguna = '" & KdAnggotaTxt.Text & "'"
        Proses.ExecuteNonQuery(SQL)
        MessageBox.Show("Data telah dihapus..!!", "Penghapusan Sukses", MessageBoxButtons.OK, MessageBoxIcon.Information)
        Call Bersih()
    End Sub

    Private Sub TutupBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles TutupBtn.Click
        Me.Close()
    End Sub
End Class

```

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Private Sub CariBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles CariBtn.Click
    KdAnggotaTxt.Text = InputBox("Masukan Kode Pengguna ")
    If KdAnggotaTxt.Text = "" Then Call Kode_Otomatis() : NmAnggotaTxt.Focus() : Exit Sub
    tblPengguna = Proses.ExecuteQuery("Select * from TblPengguna where Kode_Pengguna = '" & KdAnggotaTxt.Text & "'")
    If tblPengguna.Rows.Count = 0 Then
        MessageBox.Show("Data Pengguna tidak ditemukan", "Information", MessageBoxButtons.OK, MessageBoxIcon.Information)
        NmAnggotaTxt.Focus()
        Call Kode_Otomatis()
    Else
        With tblPengguna.Rows(0)
            KdAnggotaTxt.Text = .Item("Kode_Pengguna")
            NmAnggotaTxt.Text = .Item("Nama_Pengguna")
            PasswordTxt.Text = .Item("Password")
            PasswordTxt.Enabled = False
            LevelCbo.Text = .Item("level")
        End With
        SaveBtn.Enabled = False
        HapusBtn.Enabled = True
    End If
End Sub
End Class

```

- Form Data Anggota

```

FrmDataAnggota (Declarations)
Public Class FrmDataAnggota
    Dim SQL As String
    Dim Process As New ClsConnection
    Dim data_anggota As DataTable
    Sub Data_Record()
        data_anggota = Process.ExecuteQuery("select * from data_anggota order by kode_anggota asc")
        DGAnggota.DataSource = data_anggota
        DGAnggota.Columns(1).Width = 287
    End Sub

    Sub Code_Otomatic()
        data_anggota = Process.ExecuteQuery("select * from data_anggota order by kode_anggota desc")
        If data_anggota.Rows.Count = 0 Then
            KodeAnggotaTxt.Text = "A00001"
        Else
            With data_anggota.Rows(0)
                KodeAnggotaTxt.Text = .Item("kode_anggota")
            End With
            KodeAnggotaTxt.Text = Val(Microsoft.VisualBasic.Right(KodeAnggotaTxt.Text, 5)) + 1
            Select Case Len(KodeAnggotaTxt.Text)
                Case 1
                    KodeAnggotaTxt.Text = "A0000" & KodeAnggotaTxt.Text & ""
                Case 2
                    KodeAnggotaTxt.Text = "A000" & KodeAnggotaTxt.Text & ""
                Case 3
                    KodeAnggotaTxt.Text = "A00" & KodeAnggotaTxt.Text & ""
                Case 4
                    KodeAnggotaTxt.Text = "A0" & KodeAnggotaTxt.Text & ""
                Case 5
                    KodeAnggotaTxt.Text = "A" & KodeAnggotaTxt.Text & ""
            End Select
        End If
    End Sub

    Sub Arrange()
        KodeAnggotaTxt.Text = ""
        NamaAnggotaTxt.Text = ""
        TglLahirTxt.Text = ""
        NoKontakTxt.Text = ""
        AlamatTxt.Text = ""
        Call Data_Record()
        Call Code_Otomatic()
        SaveBtn.Enabled = True
        UpdateBtn.Enabled = False
        DeleteBtn.Enabled = False
    End Sub

    Private Sub FrmDataAnggota_Load(ByVal sender As Object, ByVal e As EventArgs) Handles MyBase.Load
        Call Arrange()
    End Sub

    Private Sub DGAnggota_CellDoubleClick(ByVal sender As Object, ByVal e As System.Windows.Forms.DataGridviewCellEventArgs) Handles DGAnggota.CellDoubleClick
        KodeAnggotaTxt.Text = DGAnggota.SelectedCells(0).Value
        NamaAnggotaTxt.Text = DGAnggota.SelectedCells(1).Value
        TglLahirTxt.Text = DGAnggota.SelectedCells(2).Value
        NoKontakTxt.Text = DGAnggota.SelectedCells(3).Value
        AlamatTxt.Text = DGAnggota.SelectedCells(4).Value
        SaveBtn.Enabled = False
        UpdateBtn.Enabled = True
        DeleteBtn.Enabled = True
    End Sub

    Private Sub SaveBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles SaveBtn.Click
        If KodeAnggotaTxt.Text = "" Then KodeAnggotaTxt.Focus() : Exit Sub
        If NamaAnggotaTxt.Text = "" Then NamaAnggotaTxt.Focus() : Exit Sub
        If TglLahirTxt.Text = "" Then TglLahirTxt.Focus() : Exit Sub
        If NoKontakTxt.Text = "" Then NoKontakTxt.Focus() : Exit Sub
        If AlamatTxt.Text = "" Then AlamatTxt.Focus() : Exit Sub

        SQL = "Insert Into data_anggota Values ('" & KodeAnggotaTxt.Text & "','" & NamaAnggotaTxt.Text & "','" & TglLahirTxt.Text & "','" & NoKontakTxt.Text & "','" & AlamatTxt.Text & "')"
    End Sub
End Class

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Process.ExecuteNonQuery(SQL)
MessageBox.Show("Data baru telah di Simpan..!!", "Saving success", MessageBoxButtons.OK, MessageBoxIcon.Information)
Call Arrange()
End Sub

Private Sub UpdateBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles UpdateBtn.Click
If KodeAnggotaTxt.Text = "" Then KodeAnggotaTxt.Focus() : Exit Sub
If NamaAnggotaTxt.Text = "" Then NamaAnggotaTxt.Focus() : Exit Sub
If TglLahirTxt.Text = "" Then TglLahirTxt.Focus() : Exit Sub
If NoKontakTxt.Text = "" Then NoKontakTxt.Focus() : Exit Sub
If AlamatTxt.Text = "" Then AlamatTxt.Focus() : Exit Sub

SQL = "Update data_anggota Set kode_anggota = '" & KodeAnggotaTxt.Text & "', nama_anggota = '" & NamaAnggotaTxt.Text & "', tanggal_lahir = '" & TglLahirTxt.Text & "', nomor_kontak = '" & NoKontakTxt.Text & "', alamat = '" & AlamatTxt.Text & "' where kode_anggota = '" & KodeAnggotaTxt.Text & "'"
Process.ExecuteNonQuery(SQL)

MessageBox.Show("Data telah di Update..!!", "Changing Data Success", MessageBoxButtons.OK, MessageBoxIcon.Information)
Call Arrange()
End Sub

Private Sub DeleteBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles DeleteBtn.Click
SQL = "Delete From data_anggota where kode_anggota = '" & KodeAnggotaTxt.Text & "'"
Process.ExecuteNonQuery(SQL)
MessageBox.Show("Data telah di Delete..!!", "Deleting Success", MessageBoxButtons.OK, MessageBoxIcon.Information)
Call Arrange()
End Sub
End Class

```

- Form Transaksi Peminjaman

**FrmTransaksiPeminjaman** (Declarations)

```

Public Class FrmTransaksiPeminjaman

    Dim SQL As String
    Dim Process As New SqlConnection
    Dim transaksi_peminjaman As DataTable

    Sub CodeOtomatic()
        transaksi_peminjaman = Process.ExecuteQuery("Select * From transaksi_peminjaman order by kode_transaksi desc")
        If transaksi_peminjaman.Rows.Count = 0 Then
            KodeTransaksiTxt.Text = "TRN00001"
        Else
            With transaksi_peminjaman.Rows(0)
                KodeTransaksiTxt.Text = .Item("kode_transaksi")
            End With

            KodeTransaksiTxt.Text = Val(Microsoft.VisualBasic.Right(KodeTransaksiTxt.Text, 5)) + 1
            Select Case Len(KodeTransaksiTxt.Text)
                Case 1
                    KodeTransaksiTxt.Text = "TRN0000" & KodeTransaksiTxt.Text & ""
                Case 2
                    KodeTransaksiTxt.Text = "TRN000" & KodeTransaksiTxt.Text & ""
                Case 3
                    KodeTransaksiTxt.Text = "TRN00" & KodeTransaksiTxt.Text & ""
                Case 4
                    KodeTransaksiTxt.Text = "TRN0" & KodeTransaksiTxt.Text & ""
                Case 5
                    KodeTransaksiTxt.Text = "TRN" & KodeTransaksiTxt.Text & ""
            End Select
        End If
    End Sub

    Sub Data_Record()
        transaksi_peminjaman = Process.ExecuteQuery("Select * From transaksi_peminjaman order by kode_transaksi asc")
        DGTransaksi.DataSource = transaksi_peminjaman
        DGTransaksi.Columns(0).Width = 80
        DGTransaksi.Columns(1).Width = 85
    End Sub
End Class

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        DGTransaksi.Columns(2).Width = 85
        DGTransaksi.Columns(3).Width = 135
        DGTransaksi.Columns(4).Width = 120
        DGTransaksi.Columns(5).Width = 200
    End Sub

| Sub buku()
    transaksi_peminjaman = Process.ExecuteQuery("Select * From data_buku order by kode_buku asc")
    If transaksi_peminjaman.Rows.Count = 0 Then
    Else
        CBKodeBuku.Items.Clear()
        With transaksi_peminjaman.Columns(0)
            For a = 0 To transaksi_peminjaman.Rows.Count - 1
                CBKodeBuku.Items.Add("'" & .Table.Rows(a).Item(0) & "/" & .Table.Rows(a).Item(1) & "'")
            Next a
        End With
    End If
End Sub

| Sub anggota()
    transaksi_peminjaman = Process.ExecuteQuery("Select * From data_anggota order by kode_anggota asc")
    If transaksi_peminjaman.Rows.Count = 0 Then
    Else
        CBKodeAnggota.Items.Clear()
        With transaksi_peminjaman.Columns(0)
            For a = 0 To transaksi_peminjaman.Rows.Count - 1
                CBKodeAnggota.Items.Add("'" & .Table.Rows(a).Item(0) & "/" & .Table.Rows(a).Item(1) & "'")
            Next a
        End With
    End If
End Sub

| Sub Arrange()
    KodeTransaksiTxt.Text = ""
    TanggalPinjamTxt.Text = ""
    TanggalKembaliTxt.Text = ""

    JudulBukuTxt.Enabled = False
    NamaAnggotaTxt.Enabled = False
    DeleteBtn.Enabled = True

    CbKodeBuku.Text = ""
    CbKodeAnggota.Text = ""
    Call Code_Otomatic()
    Call Data_Record()
    Call anggota()
    Call buku()
End Sub

| Private Sub CbKodeBuku_TextChanged(ByVal sender As Object, ByVal e As System.EventArgs) Handles CbKodeBuku.TextChanged
    transaksi_peminjaman = Process.ExecuteQuery("Select * From data_buku where kode_buku = '" & Microsoft.VisualBasic.Left(CbKodeBuku.Text, 7) & "' order by kode_buku asc")
    If transaksi_peminjaman.Rows.Count = 0 Then
    Else
        With transaksi_peminjaman.Rows(0)
            JudulBukuTxt.Text = .Item("judul_buku")
        End With
    End If
End Sub

| Private Sub CbKodeAnggota_TextChanged(ByVal sender As Object, ByVal e As System.EventArgs) Handles CbKodeAnggota.TextChanged
    transaksi_peminjaman = Process.ExecuteQuery("Select * From data_anggota where kode_anggota = '" & Microsoft.VisualBasic.Left(CbKodeAnggota.Text, 7) & "' order by kode_anggota asc")
    If transaksi_peminjaman.Rows.Count = 0 Then
    Else
        With transaksi_peminjaman.Rows(0)
            NamaAnggotaTxt.Text = .Item("nama_anggota")
        End With
    End If
End Sub

| Private Sub FrmTransaksiPeminjaman_Load(ByVal sender As Object, ByVal e As EventArgs) Handles MyBase.Load
    Call Arrange()
End Sub

| Private Sub DGTransaksi_CellDoubleClick(ByVal sender As System.Object, ByVal e As System.Windows.Forms.DataGridViewCellEventArgs) Handles DGTransaksi.CellDoubleClick

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        KodeTransaksiTxt.Text = DGTransaksi.SelectedCells(0).Value
        TanggalPinjamTxt.Text = DGTransaksi.SelectedCells(1).Value
        TanggalKembaliTxt.Text = DGTransaksi.SelectedCells(2).Value
        DeleteBtn.Enabled = True
    End Sub

Private Sub ProsesBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ProsesBtn.Click
    If KodeTransaksiTxt.Text = "" Then KodeTransaksiTxt.Focus() : Exit Sub
    If TanggalPinjamTxt.Text = "" Then TanggalPinjamTxt.Focus() : Exit Sub
    If TanggalKembaliTxt.Text = "" Then TanggalKembaliTxt.Focus() : Exit Sub
    If JudulBukuTxt.Text = "" Then JudulBukuTxt.Focus() : Exit Sub
    If NamaAnggotaTxt.Text = "" Then NamaAnggotaTxt.Focus() : Exit Sub

    If CbKodeBuku.Text = "" Then CbKodeBuku.Focus() : Exit Sub
    If CbKodeAnggota.Text = "" Then CbKodeAnggota.Focus() : Exit Sub

    SQL = "Insert into transaksi_peminjaman Values ('" & KodeTransaksiTxt.Text & "','" & TanggalPinjamTxt.Text & "','" & TanggalKembaliTxt.Text & "','" & CbKodeBuku.Text & "','" & CbKodeAnggota.Text & "','" & JudulBukuTxt.Text & "','" & NamaAnggotaTxt.Text & "')"
    Process.ExecuteNonQuery(SQL)

    MessageBox.Show("Data Baru berhasil di Simpan ...!", "Saving Success", MessageBoxButtons.OK, MessageBoxIcon.Information)
    Call Arrange()
End Sub

Private Sub DeleteBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles DeleteBtn.Click
    SQL = "Delete From transaksi_peminjaman Where kode_transaksi = '" & KodeTransaksiTxt.Text & "'"
    Process.ExecuteNonQuery(SQL)
    MessageBox.Show("Data telah di Delete..!!", "Deleting Success", MessageBoxButtons.OK, MessageBoxIcon.Information)
    Call Arrange()
End Sub

Private Sub CancelBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles CancelBtn.Click
    Call Arrange()
End Sub

Private Sub FindTxt_TextChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles FindTxt.TextChanged
    If RBKode.Checked = True Then

        transaksi_peminjaman = Process.ExecuteQuery("Select * From transaksi_peminjaman Where kode_transaksi Like '%" & FindTxt.Text & "%'")
        If transaksi_peminjaman.Rows.Count = 0 Then
            DGTransaksi.DataSource = transaksi_peminjaman
            FindTxt.Focus()
        Else
            DGTransaksi.DataSource = transaksi_peminjaman
        End If
    ElseIf RBTanggalPinjam.Checked = True Then
        transaksi_peminjaman = Process.ExecuteQuery("Select * From transaksi_peminjaman Where tanggal_pinjam Like '%" & FindTxt.Text & "%'")
        If transaksi_peminjaman.Rows.Count = 0 Then
            DGTransaksi.DataSource = DGTransaksi
            FindTxt.Focus()
        Else
            DGTransaksi.DataSource = transaksi_peminjaman
        End If
    Else
        DGTransaksi.DataSource = DGTransaksi
    End If
End Sub
End Class

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- Form Input Data Buku

**FrmDataBuku** (Declarations)

```

Public Class FrmDataBuku

    Dim SQL As String
    Dim Process As New clsConnection
    Dim data_buku As DataTable

    Sub Data_Record()
        data_buku = Process.ExecuteQuery("Select * From data_buku order by kode_buku asc")
        DGBuku.DataSource = data_buku
        DGBuku.Columns(1).Width = 100
        DGBuku.Columns(2).Width = 200
        DGBuku.Columns(3).Width = 120
        DGBuku.Columns(4).Width = 160
    End Sub

    Sub Arrange()
        KodeBukuTxt.Text = ""
        JenisBukuTxt.Text = ""
        JudulBukuTxt.Text = ""
        PenulisTxt.Text = ""
        PenerbitTxt.Text = ""
        Call Data_Record()
        SaveBtn.Enabled = True
        UpdateBtn.Enabled = False
        DeleteBtn.Enabled = False
    End Sub

    Private Sub FrmDataBuku_Load(ByVal sender As Object, ByVal e As EventArgs) Handles MyBase.Load
        Call Arrange()
    End Sub

    Private Sub DGBuku_CellDoubleClick(ByVal sender As Object, ByVal e As System.Windows.Forms.DataGridViewCellEventArgs) Handles DGBuku.CellDoubleClick
        KodeBukuTxt.Text = DGBuku.SelectedCells(0).Value
        JenisBukuTxt.Text = DGBuku.SelectedCells(1).Value
        JudulBukuTxt.Text = DGBuku.SelectedCells(2).Value
        PenulisTxt.Text = DGBuku.SelectedCells(3).Value
        PenerbitTxt.Text = DGBuku.SelectedCells(4).Value
        SaveBtn.Enabled = False
        UpdateBtn.Enabled = True
    End Sub
End Class

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DeleteBtn.Enabled = True
End Sub

Private Sub SaveBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles SaveBtn.Click
    If KodeBukuTxt.Text = "" Then KodeBukuTxt.Focus() : Exit Sub
    If JenisBukuTxt.Text = "" Then JenisBukuTxt.Focus() : Exit Sub
    If JudulBukuTxt.Text = "" Then JudulBukuTxt.Focus() : Exit Sub
    If PenulisTxt.Text = "" Then PenulisTxt.Focus() : Exit Sub
    If PenerbitTxt.Text = "" Then PenerbitTxt.Focus() : Exit Sub

    SQL = "Insert Into data_buku Values ('" & KodeBukuTxt.Text & "','" & JenisBukuTxt.Text & "','" & JudulBukuTxt.Text & "','" & PenulisTxt.Text & "','" & PenerbitTxt.Text & "')"
    Process.ExecuteNonQuery(SQL)
    MessageBox.Show("Data baru telah di Simpan..!!", "Saving success", MessageBoxButtons.OK, MessageBoxIcon.Information)
    Call Arrange()
End Sub

Private Sub UpdateBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles UpdateBtn.Click
    If KodeBukuTxt.Text = "" Then KodeBukuTxt.Focus() : Exit Sub
    If JenisBukuTxt.Text = "" Then JenisBukuTxt.Focus() : Exit Sub
    If JudulBukuTxt.Text = "" Then JudulBukuTxt.Focus() : Exit Sub
    If PenulisTxt.Text = "" Then PenulisTxt.Focus() : Exit Sub
    If PenerbitTxt.Text = "" Then PenerbitTxt.Focus() : Exit Sub

    SQL = "Update data_buku Set kode_buku = '" & KodeBukuTxt.Text & "', jenis_buku = '" & JenisBukuTxt.Text & "', judul_buku = '" & JudulBukuTxt.Text & "', penulis = '" & PenulisTxt.Text & "', penerbit = '" & PenerbitTxt.Text & "' where kode_buku = '" & KodeBukuTxt.Text & "'"
    Process.ExecuteNonQuery(SQL)

    MessageBox.Show("Data telah di Update..!!", "Changing Data Success", MessageBoxButtons.OK, MessageBoxIcon.Information)
    Call Arrange()
End Sub

Private Sub DeleteBtn_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles DeleteBtn.Click
    SQL = "Delete From data_buku where kode_buku = '" & KodeBukuTxt.Text & "'"
    Process.ExecuteNonQuery(SQL)
    MessageBox.Show("Data telah di Delete..!!", "Deleting Success", MessageBoxButtons.OK, MessageBoxIcon.Information)
    Call Arrange()
End Sub

Private Sub FindTxt_TextChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles FindTxt.TextChanged
    If RBKodeBuku.Checked = True Then
        data_buku = Process.ExecuteQuery("Select * From data_buku Where kode_buku Like '%" & FindTxt.Text & "%'")
        If data_buku.Rows.Count = 0 Then
            DGBuku.DataSource = data_buku
            FindTxt.Focus()
        Else
            DGBuku.DataSource = data_buku
        End If
    ElseIf RBJenisBuku.Checked = True Then
        data_buku = Process.ExecuteQuery("Select * From data_buku Where jenis_buku Like '%" & FindTxt.Text & "%'")
        If data_buku.Rows.Count = 0 Then
            DGBuku.DataSource = DGBuku
            FindTxt.Focus()
        Else
            DGBuku.DataSource = data_buku
        End If
    End If
End Sub
End Class

```