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Posttest 1

Link Video Demo Program

<https://youtu.be/4WydRzbZIHU>

Source Code Program

```
Public Class App
    Private Sub App_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        listSatuanAwal.SelectedIndex = 0
        listSatuanAkhir.SelectedIndex = 0

        txtJudul.Text = "Konversi Satuan Panjang"
        txtPanah.Text = "<>"
    End Sub

    Private Sub txtAwal_KeyPress(sender As Object, e As KeyPressEventArgs) Handles txtAwal.KeyPress
        If Asc(e.KeyChar) <> 8 Then
            If Asc(e.KeyChar) < 48 Or Asc(e.KeyChar) > 57 Then
                e.Handled = True
            End If
        End If
    End Sub

    Private Sub txtAkhir_KeyPress(sender As Object, e As KeyPressEventArgs) Handles txtAkhir.KeyPress
        If Asc(e.KeyChar) <> 8 Then
            If Asc(e.KeyChar) < 48 Or Asc(e.KeyChar) > 57 Then
                e.Handled = True
            End If
        End If
    End Sub

    Public Sub untukSebelahKiri()
        Dim hasil As Decimal
        Dim awal, akhir As String

        hasil = 0
        awal = listSatuanAwal.Text
        akhir = listSatuanAkhir.Text

        If awal = "Kilometer (km)" Then
            If akhir = "Kilometer (km)" Then
                hasil = txtAwal.Text * 1
            ElseIf akhir = "Hektometer (hm)" Then
                hasil = txtAwal.Text * 10
            End If
        End If
    End Sub
End Class
```

```
ElseIf akhir = "Dekameter (dam)" Then
    hasil = txtAwal.Text * 100
ElseIf akhir = "Meter (m)" Then
    hasil = txtAwal.Text * 1000
ElseIf akhir = "Desimeter (dm)" Then
    hasil = txtAwal.Text * 10000
ElseIf akhir = "Centimeter (cm)" Then
    hasil = txtAwal.Text * 100000
ElseIf akhir = "Milimeter (mm)" Then
    hasil = txtAwal.Text * 1000000
End If
```

```
ElseIf awal = "Hektometer (hm)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAwal.Text / 10
    ElseIf akhir = "Hektometer (hm)" Then
        hasil = txtAwal.Text * 1
    ElseIf akhir = "Dekameter (dam)" Then
        hasil = txtAwal.Text * 10
    ElseIf akhir = "Meter (m)" Then
        hasil = txtAwal.Text * 100
    ElseIf akhir = "Desimeter (dm)" Then
        hasil = txtAwal.Text * 1000
    ElseIf akhir = "Centimeter (cm)" Then
        hasil = txtAwal.Text * 10000
    ElseIf akhir = "Milimeter (mm)" Then
        hasil = txtAwal.Text * 100000
    End If
```

```
ElseIf awal = "Dekameter (dam)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAwal.Text / 100
    ElseIf akhir = "Hektometer (hm)" Then
        hasil = txtAwal.Text / 10
    ElseIf akhir = "Dekameter (dam)" Then
        hasil = txtAwal.Text * 1
    ElseIf akhir = "Meter (m)" Then
        hasil = txtAwal.Text * 10
    ElseIf akhir = "Desimeter (dm)" Then
        hasil = txtAwal.Text * 100
    ElseIf akhir = "Centimeter (cm)" Then
        hasil = txtAwal.Text * 1000
    ElseIf akhir = "Milimeter (mm)" Then
        hasil = txtAwal.Text * 10000
    End If
```

```
ElseIf awal = "Meter (m)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAwal.Text / 1000
    ElseIf akhir = "Hektometer (hm)" Then
```

```
    hasil = txtAwal.Text / 100
ElseIf akhir = "Dekameter (dam)" Then
    hasil = txtAwal.Text / 10
ElseIf akhir = "Meter (m)" Then
    hasil = txtAwal.Text * 1
ElseIf akhir = "Desimeter (dm)" Then
    hasil = txtAwal.Text * 10
ElseIf akhir = "Centimeter (cm)" Then
    hasil = txtAwal.Text * 100
ElseIf akhir = "Milimeter (mm)" Then
    hasil = txtAwal.Text * 1000
End If
```

```
ElseIf awal = "Desimeter (dm)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAwal.Text / 10000
    ElseIf akhir = "Hektometer (hm)" Then
        hasil = txtAwal.Text / 1000
    ElseIf akhir = "Dekameter (dam)" Then
        hasil = txtAwal.Text / 100
    ElseIf akhir = "Meter (m)" Then
        hasil = txtAwal.Text / 10
    ElseIf akhir = "Desimeter (dm)" Then
        hasil = txtAwal.Text * 1
    ElseIf akhir = "Centimeter (cm)" Then
        hasil = txtAwal.Text * 10
    ElseIf akhir = "Milimeter (mm)" Then
        hasil = txtAwal.Text * 100
    End If
```

```
ElseIf awal = "Centimeter (cm)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAwal.Text / 100000
    ElseIf akhir = "Hektometer (hm)" Then
        hasil = txtAwal.Text / 10000
    ElseIf akhir = "Dekameter (dam)" Then
        hasil = txtAwal.Text / 1000
    ElseIf akhir = "Meter (m)" Then
        hasil = txtAwal.Text / 100
    ElseIf akhir = "Desimeter (dm)" Then
        hasil = txtAwal.Text / 10
    ElseIf akhir = "Centimeter (cm)" Then
        hasil = txtAwal.Text * 1
    ElseIf akhir = "Milimeter (mm)" Then
        hasil = txtAwal.Text * 10
    End If
```

```
ElseIf awal = "Milimeter (mm)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAwal.Text / 1000000
```

```

ElseIf akhir = "Hektometer (hm)" Then
    hasil = txtAwal.Text / 100000
ElseIf akhir = "Dekameter (dam)" Then
    hasil = txtAwal.Text / 10000
ElseIf akhir = "Meter (m)" Then
    hasil = txtAwal.Text / 1000
ElseIf akhir = "Desimeter (dm)" Then
    hasil = txtAwal.Text / 100
ElseIf akhir = "Centimeter (cm)" Then
    hasil = txtAwal.Text / 10
ElseIf akhir = "Milimeter (mm)" Then
    hasil = txtAwal.Text * 1
End If

```

```
End If
```

```

txtAkhir.Text = hasil
txtHasil.Text = txtAwal.Text + " " + listSatuanAwal.Text + " = " + txtAkhir.Text + " "
+ listSatuanAkhir.Text
End Sub

```

```
Public Sub untukSebelahKanan()
```

```

    Dim hasil As Decimal
    Dim awal, akhir As String

```

```

    hasil = 0
    awal = listSatuanAkhir.Text
    akhir = listSatuanAwal.Text

```

```

If awal = "Kilometer (km)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAkhir.Text * 1
    ElseIf akhir = "Hektometer (hm)" Then
        hasil = txtAkhir.Text * 10
    ElseIf akhir = "Dekameter (dam)" Then
        hasil = txtAkhir.Text * 100
    ElseIf akhir = "Meter (m)" Then
        hasil = txtAkhir.Text * 1000
    ElseIf akhir = "Desimeter (dm)" Then
        hasil = txtAkhir.Text * 10000
    ElseIf akhir = "Centimeter (cm)" Then
        hasil = txtAkhir.Text * 100000
    ElseIf akhir = "Milimeter (mm)" Then
        hasil = txtAkhir.Text * 1000000
    End If

```

```

ElseIf awal = "Hektometer (hm)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAkhir.Text / 10
    ElseIf akhir = "Hektometer (hm)" Then

```

```
    hasil = txtAkhir.Text * 1
ElseIf akhir = "Dekameter (dam)" Then
    hasil = txtAkhir.Text * 10
ElseIf akhir = "Meter (m)" Then
    hasil = txtAkhir.Text * 100
ElseIf akhir = "Desimeter (dm)" Then
    hasil = txtAkhir.Text * 1000
ElseIf akhir = "Centimeter (cm)" Then
    hasil = txtAkhir.Text * 10000
ElseIf akhir = "Milimeter (mm)" Then
    hasil = txtAkhir.Text * 100000
End If
```

```
ElseIf awal = "Dekameter (dam)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAkhir.Text / 100
    ElseIf akhir = "Hektometer (hm)" Then
        hasil = txtAkhir.Text / 10
    ElseIf akhir = "Dekameter (dam)" Then
        hasil = txtAkhir.Text * 1
    ElseIf akhir = "Meter (m)" Then
        hasil = txtAkhir.Text * 10
    ElseIf akhir = "Desimeter (dm)" Then
        hasil = txtAkhir.Text * 100
    ElseIf akhir = "Centimeter (cm)" Then
        hasil = txtAkhir.Text * 1000
    ElseIf akhir = "Milimeter (mm)" Then
        hasil = txtAkhir.Text * 10000
    End If
```

```
ElseIf awal = "Meter (m)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAkhir.Text / 1000
    ElseIf akhir = "Hektometer (hm)" Then
        hasil = txtAkhir.Text / 100
    ElseIf akhir = "Dekameter (dam)" Then
        hasil = txtAkhir.Text / 10
    ElseIf akhir = "Meter (m)" Then
        hasil = txtAkhir.Text * 1
    ElseIf akhir = "Desimeter (dm)" Then
        hasil = txtAkhir.Text * 10
    ElseIf akhir = "Centimeter (cm)" Then
        hasil = txtAkhir.Text * 100
    ElseIf akhir = "Milimeter (mm)" Then
        hasil = txtAkhir.Text * 1000
    End If
```

```
ElseIf awal = "Desimeter (dm)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAkhir.Text / 10000
```

```
ElseIf akhir = "Hektometer (hm)" Then
    hasil = txtAkhir.Text / 1000
ElseIf akhir = "Dekameter (dam)" Then
    hasil = txtAkhir.Text / 100
ElseIf akhir = "Meter (m)" Then
    hasil = txtAkhir.Text / 10
ElseIf akhir = "Desimeter (dm)" Then
    hasil = txtAkhir.Text * 1
ElseIf akhir = "Centimeter (cm)" Then
    hasil = txtAkhir.Text * 10
ElseIf akhir = "Milimeter (mm)" Then
    hasil = txtAkhir.Text * 100
End If
```

```
ElseIf awal = "Centimeter (cm)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAkhir.Text / 100000
    ElseIf akhir = "Hektometer (hm)" Then
        hasil = txtAkhir.Text / 10000
    ElseIf akhir = "Dekameter (dam)" Then
        hasil = txtAkhir.Text / 1000
    ElseIf akhir = "Meter (m)" Then
        hasil = txtAkhir.Text / 100
    ElseIf akhir = "Desimeter (dm)" Then
        hasil = txtAkhir.Text / 10
    ElseIf akhir = "Centimeter (cm)" Then
        hasil = txtAkhir.Text * 1
    ElseIf akhir = "Milimeter (mm)" Then
        hasil = txtAkhir.Text * 10
    End If
```

```
ElseIf awal = "Milimeter (mm)" Then
    If akhir = "Kilometer (km)" Then
        hasil = txtAkhir.Text / 1000000
    ElseIf akhir = "Hektometer (hm)" Then
        hasil = txtAkhir.Text / 100000
    ElseIf akhir = "Dekameter (dam)" Then
        hasil = txtAkhir.Text / 10000
    ElseIf akhir = "Meter (m)" Then
        hasil = txtAkhir.Text / 1000
    ElseIf akhir = "Desimeter (dm)" Then
        hasil = txtAkhir.Text / 100
    ElseIf akhir = "Centimeter (cm)" Then
        hasil = txtAkhir.Text / 10
    ElseIf akhir = "Milimeter (mm)" Then
        hasil = txtAkhir.Text * 1
    End If
```

```
End If
```

```

        txtAwal.Text = hasil
        txtHasil.Text = txtAwal.Text + " " + listSatuanAwal.Text + " = " + txtAkhir.Text + " "
+ listSatuanAkhir.Text
    End Sub

    Private Sub txtAwal_TextChanged(sender As Object, e As EventArgs) Handles
txtAwal.TextChanged
        If txtAwal.Text = "" Then
            errorInputTarget.SetError(txtAwal, "Wajib Diisi")
            Return
        ElseIf txtAwal.Text = 0 Then
            errorInputTarget.SetError(txtAwal, "Wajib Lebih Dari 0")
            Return
        Else
            errorInputTarget.SetError(txtAwal, "")
        End If

        untukSebelahKiri()

    End Sub

    Private Sub txtAkhir_TextChanged(sender As Object, e As EventArgs) Handles
txtAkhir.TextChanged
        If txtAkhir.Text = "" Then
            errorInputTarget.SetError(txtAkhir, "Wajib Diisi")
            Return
        ElseIf txtAkhir.Text = 0 Then
            errorInputTarget.SetError(txtAkhir, "Wajib Lebih Dari 0")
            Return
        Else
            errorInputTarget.SetError(txtAkhir, "")
        End If

        untukSebelahKanan()

    End Sub

    Private Sub listSatuanAwal_SelectedIndexChanged(sender As Object, e As EventArgs)
Handles listSatuanAwal.SelectedIndexChanged
        untukSebelahKanan()
    End Sub

    Private Sub listSatuanAkhir_SelectedIndexChanged(sender As Object, e As EventArgs)
Handles listSatuanAkhir.SelectedIndexChanged
        untukSebelahKiri()
    End Sub

End Class

```