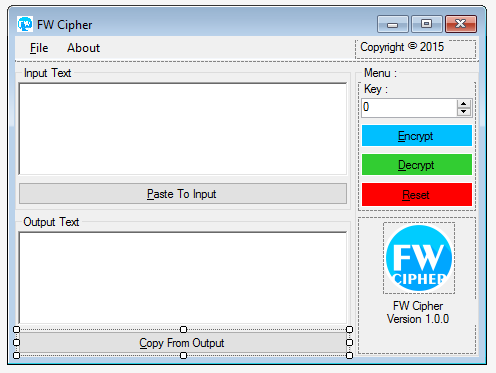
# Project FW Cipher WPF

## Bahan di Winforms





### Source code fwengine.vb

Public Class fwengine

Public Function cipher(ByVal teksinput As String, ByVal kunci As Integer) As String

'Konversi string input menjadi array karakter teksarray

Dim teksarray() As Char = teksinput.ToCharArray()

'buat variabel penampung karakter dalam ascii

Dim ascii(teksarray.Length) As Integer

'Cek kunci negatif (decrypt)

If kunci < 0 Then kunci = 26 + (kunci Mod 26)

For iterasi As Integer = 0 To teksarray.Length - 1

'konversi array karakter kedalam ascii

ascii(iterasi) = Asc(teksarray(iterasi))

'filter karakter dan angka

' angka dari 48 - 57

' A - Z dari 65 - 90

' a - z dari 97 - 122

If ascii(iterasi) >= 48 And ascii(iterasi) <= 57 Then

ascii(iterasi) -= 48 'assign angka as 1 sampai 0 in order

ascii(iterasi) = (ascii(iterasi) + kunci) Mod 10

ascii(iterasi) += 48

ElseIf ascii(iterasi) >= 65 And ascii(iterasi) <= 90 Then

ascii(iterasi) -= 65 'assign A-Z as 0 to 25 in order

ascii(iterasi) = (ascii(iterasi) + kunci) Mod 26

ascii(iterasi) += 65

ElseIf ascii(iterasi) >= 97 And ascii(iterasi) <= 122 Then

ascii(iterasi) -= 97 'assign a-z as 0 to 25 in order

ascii(iterasi) = (ascii(iterasi) + kunci) Mod 26

ascii(iterasi) += 97

End If

'konversi ascii ke karakter

teksarray(iterasi) = Chr(ascii(iterasi))

Next

'return array of Char as String

Return teksarray

End Function

End Class

### Source code Main Program

'+++++++++++++++'

' FW CIPHER '

'+++++++++++++++'

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Public Class Form1

Private fw As New fwengine

'Sub agar ketika mulai, bt\_copy tidak aktif

Private Sub Form1\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

bt\_copy.Enabled = False

SaveTSmenu.Enabled = False

End Sub

'Operasi tombol enkripsi

Private Sub bt\_encrypt\_Click(sender As Object, e As EventArgs) Handles bt\_encrypt.Click

'Deklarasi variabel

Dim key As Integer 'kunci

Dim textencrypt As String 'hasil enkripsi

'Inisialisasi nilai

key = kunci.Value Mod 26

'Proses Enkripsi

textencrypt = fw.cipher(rtb\_input.Text, key)

rtb\_output.Text = textencrypt

If rtb\_output.Text IsNot String.Empty Then SaveTSmenu.Enabled = True

End Sub

'Operasi tombol dekripsi

Private Sub bt\_decrypt\_Click(sender As Object, e As EventArgs) Handles bt\_decrypt.Click

'Deklarasi variabel

Dim key As Integer 'kunci

Dim textdecrypt As String 'hasil dekripsi

'Inisialisasi nilai (dekripsi = negatif)

key = -kunci.Value Mod 26

'Proses Enkripsi

textdecrypt = fw.cipher(rtb\_input.Text, key)

rtb\_output.Text = textdecrypt

If rtb\_output.Text IsNot String.Empty Then SaveTSmenu.Enabled = True

End Sub

'Operasi reset teksboks input, output & kunci

Private Sub bt\_reset\_Click(sender As Object, e As EventArgs) Handles bt\_reset.Click

kunci.Value = 0

rtb\_input.Text = ""

rtb\_output.Text = ""

SaveTSmenu.Enabled = False

End Sub

Private Sub FileToolStripMenuItem\_Click(sender As Object, e As EventArgs) Handles FileToolStripMenuItem.Click

AboutBox1.Show()

End Sub

'Operasi paste to input dari clipboard

Private Sub bt\_paste\_Click(sender As Object, e As EventArgs) Handles bt\_paste.Click

rtb\_input.Text = Clipboard.GetText

End Sub

'Operasi copy from output ke clipboard

Private Sub bt\_copy\_Click(sender As Object, e As EventArgs) Handles bt\_copy.Click

Clipboard.SetText(rtb\_output.Text)

End Sub

'Operasi pengecekan bila output kosong, maka bt\_copy disabled

Private Sub rtb\_out\_berubah(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles rtb\_output.TextChanged

If (String.IsNullOrWhiteSpace(rtb\_output.Text)) Then bt\_copy.Enabled = False Else bt\_copy.Enabled = True

End Sub

'Operasi Toolstrip Open dari file teks mentah

Private Sub OpenTSmenu\_Click(sender As Object, e As EventArgs) Handles OpenTSmenu.Click

If rtb\_output.Text = String.Empty Then

'kalo rtb output kosong, langsung OpenFileDialog

OpenFileDialog1.ShowDialog()

Try

rtb\_input.Text = My.Computer.FileSystem.ReadAllText(OpenFileDialog1.FileName)

Catch ex As Exception

End Try 'Check if there's text added to the textbox

Else

'If the text of rtb\_output is not empty, the program will ask the user if they want to save the changes

Dim ask As MsgBoxResult

ask = MsgBox("Simpan hasil?", MsgBoxStyle.YesNoCancel, "Buka Dokumen")

If ask = MsgBoxResult.No Then

OpenFileDialog1.ShowDialog()

Try

rtb\_input.Text = My.Computer.FileSystem.ReadAllText(OpenFileDialog1.FileName)

Catch ex As Exception

End Try

ElseIf ask = MsgBoxResult.Cancel Then

Exit Sub

ElseIf ask = MsgBoxResult.Yes Then

SaveFileDialog1.ShowDialog()

My.Computer.FileSystem.WriteAllText(SaveFileDialog1.FileName, rtb\_output.Text, False)

rtb\_input.Clear()

rtb\_output.Clear()

OpenFileDialog1.ShowDialog()

Try

rtb\_input.Text = My.Computer.FileSystem.ReadAllText(OpenFileDialog1.FileName)

Catch ex As Exception

End Try

End If

End If

End Sub

'Operasi Toolstrip Save dari output ke file teks

Private Sub SaveTSmenu\_Click(sender As Object, e As EventArgs) Handles SaveTSmenu.Click

SaveFileDialog1.ShowDialog()

Try

My.Computer.FileSystem.WriteAllText(SaveFileDialog1.FileName, rtb\_output.Text, False)

Catch ex As Exception

End Try

End Sub

Dim counter As Integer = 0

Private Sub PictureBox1\_Click(sender As Object, e As EventArgs) Handles PictureBox1.Click

counter = counter + 1

If counter = 7 Then

MsgBox("Ai kamu ngapain? .\_.", MsgBoxStyle.Critical, "Telor Paskah!")

counter = 0

End If

End Sub

End Class