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Lampiran 1

LISTING PROGRAM

1. AlgoROT13

```
Imports Code7248.word_reader
Public Class AlgoROT13
    Dim filePesan As String Dim LenPesan As Integer
    Dim Plainteks1 As String
    Private Declare Function GetTickCount Lib "kernel32" () As Long
    Dim StartTime As Object
    Dim EndTime As Object
    Dim ElapsedTime As Object Dim Ekstensi As String
    Private Sub ROT13_Load(ByVal sender As System.Object, ByVal e As
        System.EventArgs) Handles MyBase.Load
        btnDekripsi.Enabled = False btnEnkripsi.Enabled = False
        btnSimpan.Enabled = False
    End Sub
    Private Sub cmdFilePesan_Click(ByVal sender As System.Object,
        ByVal e As System.EventArgs) Handles cmdFilePesan.Click
        OpenFileDialog1.Title = "File data"
        If OpenFileDialog1.ShowDialog() =
            Windows.Forms.DialogResult.OK
            Then OpenFileDialog1.Filter =
                "Data|*.txt;*.docx;*.pdf;*.rot"
            filePesan = OpenFileDialog1.FileName
            Ekstensi = Microsoft.VisualBasic.Right(filePesan, 2)
            lblFilePesan.Text = filePesan
            'OpenFileDialog1.FileName Dim fileDetailsPesan As
            System.IO.FileInfo = New
            System.IO.FileInfo(filePesan)
```

```

Dim SizePesan As Single =
fileDetailsPesan.Length.ToString

If filePesan = "" Then MsgBox("Pesan tidak ada", , "ERR") :
Exit

SubIf Ekstensi = "xt" Then

Dim pdllAF As New AdvanceFunction

pdllAF.ReadFromFile(filePlainteks)btnDekripsi.Enabled =
False
btnEnkripsi.Enabled = True

ElseIf Ekstensi = "cx" Or Ekstensi = "oc" Then Dim
extractor = New
TextExtractor(filePesan)Dim text As String =
extractor.ExtractText() txtPlainteks.Text = text
btnDekripsi.Enabled = FalsebtnEnkripsi.Enabled = True

ElseIf Ekstensi = "ot" Then

'ElseIf Ekstensi = "ot" Or Ekstensi = "df" Then Dim pdllAF As
New AdvanceFunction pdllAF.ReadFromFile(filePesan,
txtCipherteks) btnEnkripsi.Enabled = False
btnDekripsi.Enabled = True

End If
LenPesan = Len(txtPlainteks.Text)lblJumHuruf.Text = LenPesan
End If
End Sub

Public Function EncrypRot13(ByVal value As String) As String
StartTime = GetTickCount() / 1000

Dim lowerA As Integer = Asc("a") Dim lowerZ As Integer
= Asc("z")

Dim lowerM As Integer = Asc("m") Dim upperA As
Integer = Asc("A") Dim upperZ As Integer = Asc("Z")
Dim upperM As Integer = Asc("M")' Convert to character
array. Dim array As Char() = value.ToCharArray

' Loop over string. Dim i As Integer

```

```

For i = 0 To array.Length - 1
    ' Convert to integer.
        Dim number As Integer = Asc(array(i))
    ' Shift letters.
    If ((number >= lowerA) AndAlso (number <= lowerZ)) ThenIf
(number >
lowerM) Then
        number += 13End If
    ElseIf ((number >= upperA) AndAlso (number <= upperZ)) ThenIf
(number > upperM) Then number -= 13Else
        number += 13End If
    End If
Next i
Convert to character. array(i) = Chr(number)
EndTime = GetTickCount() / 1000
ElapsedTime = (EndTime - StartTime)'lblLama.Text =
ElapsedTime
lblLama.Text = Format(ElapsedTime, "#####0.000")
' Return string.
Return New String(array)End Function
Public Function DecrypRot13(ByVal value As String) As String'
    Could be stored as integers directly.
    Dim lowerA As Integer = Asc("a"c) Dim lowerZ As Integer
    = Asc("z"c) Dim lowerM As Integer = Asc("m"c) Dim
    upperA As Integer = Asc("A"c) Dim upperZ As Integer =
    Asc("Z"c) Dim upperM As Integer = Asc("M"c)
    ' Convert to character array.
        Dim array As Char() = value.ToCharArray
    ' Loop over string.Dim i As Integer
        For i = 0 To array.Length - 1
    ' Convert to integer.
        Dim number As Integer = Asc(array(i))' Shift letters.
    If ((number >= lowerA) AndAlso (number <= lowerZ))

```

```

ThenIf
    (number > lowerM) Then number -= 13Else
    number += 13End If
ElseIf ((number >= upperA) AndAlso (number <= upperZ))
    ThenIf
        (number > upperM) Then number -= 13Else number += 13End If
    End If
' Convert to character. array(i) = Chr(number) Next i
' Return string.
    Return New String(array)End Function
Private Sub btnEnkripsi_Click(ByVal sender As System.Object,
    ByVal e AsSystem.EventArgs) Handles btnEnkripsi.Click
    txtCipherteks.Text = EncrypRot13(txtPlainteks.Text)
    btnEnkripsi.Enabled = False
    btnDekripsi.Enabled = TruebtnSimpan.Enabled = True
End Sub
Private Sub btnBersih_Click(ByVal sender As System.Object,
    ByVal e AsSystem.EventArgs) Handles btnBersih.Click
    txtCipherteks.Text = ""txtPlainteks.Text = ""
    txtPlainteks1.Text = ""lblFilePesan.Text = ""
    lblJumHuruf.Text = "" Plainteks1 = "" lblLama.Text = ""
    btnDekripsi.Enabled = FalsebtnEnkripsi.Enabled = False
    btnSimpan.Enabled = False
End Sub
Private Sub btnDekripsi_Click(ByVal sender As System.Object,
    ByVal e AsSystem.EventArgs) Handles btnDekripsi.Click
    txtPlainteks1.Text = DecrypRot13(txtCipherteks.Text)
    btnDekripsi.Enabled = False
    EndTime = GetTickCount() / 1000 ElapsedTime = (EndTime -
    StartTime)

```

```

        lblLama.Text = Format(ElapsedTime,
"#####0.000")End Sub Private Sub btnSimpan_Click(ByVal
sender As System.Object, ByVal e As System.EventArgs) Handles
btnSimpan.Click
        SaveFileDialog1.Filter = "Text files (.rot)|.rot"
        SaveFileDialog1.ShowDialog()
        If SaveFileDialog1.FileName <> "" Then
Using SW As New IO.StreamWriter(SaveFileDialog1.FileName,
False) SW.Write(txtCipherteks.Text)
End Using
End If
        btnSimpan.Enabled = False MsgBox("Data sudah disimpan")
        txtCipherteks.
        Text = "" txtPlainteks.Text = "" txtPlainteks1.Text = ""
        lblFilePesan.Text = "" lblJumHuruf.Text = "" Plainteks1 = ""
EndTime = GetTickCount() / 1000 ElapsedTime = (EndTime -
StartTime)
        lblLama.Text = Format(ElapsedTime, "#####0.000")
        btnDekripsi.Enabled = False
        btnEnkripsi.Enabled = False btnSimpan.Enabled = False
End Sub
Private Sub btnKeluar_Click(ByVal sender As System.Object,
        ByVal e As System.EventArgs) Handles btnKeluar.Click
        Close()End Sub
End Class

```


2. Form RFC

```
Public Class frmRFC
```

```
Private Sub btnKeluar_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles btnKeluar.Click  
Close()End Sub
```

```
Private Sub btnEnkripsi_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles btnEnkripsi.Click
```

```
Dim key As Integer = txtKey.Text
```

```
Dim txtPlainText As String = txtPlainteks.Text
```

```
Dim cipherText As String = Encrypt(key, txtPlainText)
```

```
txtCipherteks.Text = cipherText
```

```
End Sub
```

```
Sub Enkripsi()
```

```
Dim plainteks As String = txtPlainteks.Text
```

```
Dim perulangan As Integer
```

```
Dim key As Integer = txtKey.Text
```

```
Dim strPlainteks1 = Microsoft.VisualBasic.Left(plainteks, 1)
```

```
Dim n2 As Integer = key
```

```
Dim strKey, strKey1, strKey2, strKey3 As String
```

```
Dim jumKarakter As Integer = Len(plainteks)
```

```
Dim n3, n4 As Integer perulangan = jumKarakter /  
key'Iterasi-1
```

```
For i As Integer = 1 To perulanganIf i = 1 Then
```

```
strKey1 = Microsoft.VisualBasic.Left(plainteks, 1)'MsgBox("i=1")
```

```
Else
```

```
n3 = n3 + 4n4 = n3 + 1
```

```
strKey1 = Microsoft.VisualBasic.Mid(plainteks, n4, 1) End
```

```
If
```

```
strKey = strKey & strKey1 'strKey = strKey & "-" & n3
```

```
Next ListBox1.Items.Add(strKey)Call Iterasi2() End Sub
```

```
Sub Iterasi2()
```

```

Dim plainteks As String = txtPlainteks.Text
Dim perulangan As Integer
Dim key As Integer = txtKey.Text
Dim strPlainteks1 = Microsoft.VisualBasic.Left(plainteks, 1)
Dim n2 As Integer = key
Dim strKey, strKey1, strKey2, strKey3 As String
Dim jumKarakter As Integer = Len(plainteks)
Dim n3, n4 As Integer perulangan = jumKarakter /
key'Iterasi-2
For i As Integer = 1 To perulangan - 1 If i = 1 Then
    strKey1 = Microsoft.VisualBasic.Mid(plainteks, 1, 2)
    MsgBox("i=1")
Else
    n3 = n3 + 3 n4 = n3 + 1
strKey1 = Microsoft.VisualBasic.Mid(plainteks, n4, 1)
End If
    strKey = strKey & strKey1 'strKey = strKey & "-" & n3
Next ListBox1.Items.Add(strKey)' MsgBox(" " & strKey) End
Sub
Function Encrypt(ByVal rail As Integer, ByVal txtPlainText As
String) AsString
    Dim railFence As New List(Of String)() For i As Integer = 0
To rail - 1 railFence.Add(" ")
Next
    Dim number As Integer = 0
    Dim increment As Integer = 1
For Each c As Char In txtPlainText If number + increment = rail
Then increment = -1
    ElseIf number + increment = -1 Then increment = 1
    End If railFence(number) += c number += increment
Next
    Dim buffer As String = ""
For Each s As String In railFence buffer += s

```

Next

Return bufferEnd Function

```
Private Sub btnBersih_Click(ByVal sender As System.Object,  
ByVal e As
```

```
System.EventArgs) Handles btnBersih.Click
```

```
txtKey.Text = "" txtKey.Text = "" txtPlainteks.Text = ""
```

```
txtCipherteks.Text = ""ListBox1.Items.Clear()
```

```
End Sub
```

```
Public Function EncrypRot13(ByVal value As String) As String'
```

Could be stored as integers directly.

```
Dim lowerA As Integer = Asc("a") Dim lowerZ As Integer
```

```
= Asc("z") Dim lowerM As Integer = Asc("m") Dim
```

```
upperA As Integer = Asc("A") Dim upperZ As Integer =
```

```
Asc("Z") Dim upperM As Integer = Asc("M")
```

```
' Convert to character array.
```

```
Dim array As Char() = value.ToCharArray' Loop over string.
```

```
Dim i As Integer
```

```
For i = 0 To array.Length - 1
```

```
' Convert to integer.
```

```
Dim number As Integer = Asc(array(i))
```

```
' Shift letters.
```

```
If ((number >= lowerA) AndAlso (number <= lowerZ)) ThenIf  
(number >
```

```
lowerM) Then number -= 13Else number += 13End If
```

```
ElseIf ((number >= upperA) AndAlso (number <= upperZ)) ThenIf
```

```
(number > upperM) Then number -= 13Else
```

```
number += 13End If
```

```
End If
```

```
' Convert to character. array(i) = Chr(number) Next i
```

```
' Return string.
```

```
Return New String(array)End Function
```

```
Public Function DecrypRot13(ByVal value As String) As String'
```

Could be stored as integers directly.

```
Dim lowerA As Integer = Asc("a"c) Dim lowerZ As Integer  
= Asc("z"c) Dim lowerM As Integer = Asc("m"c) Dim  
upperA As Integer = Asc("A"c) Dim upperZ As Integer =  
Asc("Z"c) Dim upperM As Integer = Asc("M"c)
```

```
' Convert to character array.
```

```
Dim array As Char() = value.ToCharArray
```

```
' Loop over string.
```

```
Dim i As Integer
```

```
For i = 0 To array.Length - 1
```

```
' Convert to integer.
```

```
Dim number As Integer = Asc(array(i))
```

```
' Shift letters.
```

```
If ((number >= lowerA) AndAlso (number <= lowerZ)) ThenIf  
(number >
```

```
lowerM) Then number -= 13Else number += 13End If
```

```
ElseIf ((number >= upperA) AndAlso (number <= upperZ)) ThenIf
```

```
(number > upperM) Then number -= 13Else number += 13End If
```

```
End If
```

```
' Convert to character. array(i) = Chr(number) Next i
```

```
' Return string.
```

```
Return New String(array)End Function
```

```
Private Sub btnRot13_Click(ByVal sender As System.Object,  
ByVal e  
.Text
```

```
System.Object, ByVal e As System.EventArgs) Handles
```

```
btnDekripsiROT13.Click
```

```
txtPlainteks1.Text = DecrypRot13(txtCipherteks.Text)
```

```
ListBox1.Items.Add(txtPlainteks1.Text)
```

```
End Sub
```

```
End Class
```

3. Hybrid RFC ROT13

```
Imports System
```

```
Imports System.IO
```

```
Imports System.Security.Cryptography Imports word =
```

```
Microsoft.Office.Interop.Word Imports
```

```
Microsoft.Office.Interop.Word Imports
```

```
Syncfusion.DocIO.DLS
```

```
Imports System.Linq
```

```
Imports System.IO.File Imports sql
```

```
Imports Code7248.word_reader Public Class HybridRFCROT13
```

```
Dim filePesan As String
```

```
Dim LenPesan As Integer
```

```
Dim Plainteks As String Dim Plainteks1 As String
```

```
Dim PlainText2 As String
```

```
Dim key As Integer
```

```
Private Declare Function GetTickCount Lib "kernel32" () As Long
```

```
Dim StartTime As Object Dim EndTime As Object Dim
```

```
ElapsedTime As Object Dim doc As word.Document
```

```
Dim app As word.Application Dim Ekstensi As String
```

```
Dim array As Char()
```

```
Private Sub cmdFilePesan_Click(ByVal sender As System.Object,
```

```
ByVal e As System.EventArgs) Handles
```

```
cmdFilePesan.Click
```

```
OpenFileDialog1.Title = "File Pesan"
```

```
If OpenFileDialog1.ShowDialog() =
```

```
Windows.Forms.DialogResult.OK
```

```
Then OpenFileDialog1.Filter =
```

```
"Data Pesan|*.txt;*.docx;*.hyb" filePesan =
```

```
OpenFileDialog1.FileName
```

```

Ekstensi = Microsoft.VisualBasic.Right(filePesan, 2)
    lblFilePesan.Text = filePesan
    'OpenFileDialog1.FileNameDim fileDetailsPesan As
    System.IO.FileInfo = New
System.IO.FileInfo(filePesan)
Dim SizePesan As Single = fileDetailsPesan.Length.ToString
If filePesan = "" Then MsgBox("Pesan tidak ada", , "ERR") : Exit
SubIf
    Ekstensi = "xt" Then
Dim pdllAF As New AdvanceFunction
    pdllAF.ReadFromFile(filePesan, txtPlainteks)LenPesan
    = Len(txtPlainteks.Text)
    btnDekripsi.Enabled = False btnEnkripsiRFC.Enabled = True
    ElseIf Ekstensi = "cx" Or Ekstensi = "oc" Then
Dim extractor = New TextExtractor(filePesan)
Dim text As String = extractor.ExtractText() txtPlainteks.Text =
text
LenPesan = Len(txtPlainteks.Text)btnDekripsi.Enabled = False
    btnEnkripsiRFC.Enabled = True
    ElseIf Ekstensi = "yb" Then
Dim pdllAF As New AdvanceFunctiontxtCipherteks.Visible =
    True txtPlainteks.Visible = False
'pdllAF.ReadFromFile(filePesan, txtCipherteksRFC)
    pdllAF.ReadFromFile(filePesan, txtCipherteks)
    LenPesan = Len(txtCipherteks.Text)
    btnDekripsi.Enabled = True
    btnDekripsi.Visible = False btnDekripsiHy.Visible = True
    btnEnkripsiRFC.Enabled = False
End If
    lblJumHuruf.Text = LenPesanEnd If
End Sub

```

```

Private Sub btnKeluar_Click(ByVal sender As System.Object,
ByVal e
    AsSystem.EventArgs) Handles btnKeluar.Click
Close()End Sub
Private Sub btnEnkripsiRFC_Click(ByVal sender As System.Objec
ByVal eAs System.EventArgs) Handles
btnEnkripsiRFC.Click
StartTime = GetTickCount() / 1000
Dim key As Integer = txtKey.Text PlainText1 = txtPlainteks.Text
CipherText1 = Encrypt(key, PlainText1)txtCipherteksRFC.Text =
    CipherText1
txtCipherteksROT.Text = EncrypRot13(txtCipherteksRFC.Text)
btnSimpan.Enabled = True
EndTime = GetTickCount() / 1000 ElapsedTime = (EndTime -
    StartTime)
lblLama.Text = Format(ElapsedTime, "#####0.000")
    btnDekripsi.Enabled = True
btnEnkripsiROT.Enabled = TruebtnEnkripsiRFC.Enabled = False
End Sub
Private Sub HybridRFCROT13_Load(ByVal sender As
System.Object, ByVale As System.EventArgs) Handles
MyBase.Load
btnDekripsi.Enabled = False
btnEnkripsiRFC.Enabled = FalsebtnEnkripsiROT.Enabled =
False
txtCipherteks.Visible = False
btnDekripsiGab.Visible = False btnDekripsiHy.Visible = False
    btnDekripsi.Visible = True
btnSimpan.Enabled = FalseEnd Sub
Private Sub btnEnkripsiROT_Click(ByVal sender As
System.Object, ByVal eAs System.EventArgs) Handles
btnEnkripsiROT.Click
txtCipherteksROT.Text = EncrypRot13(txtCipherteksRFC.Text)

```

```

btnEnkripsiROT.Enabled = False
End Sub
Public Function EncrypRot13(ByVal value As String) As String
StartTime = GetTickCount() / 1000
Dim lowerA As Integer = Asc("a") Dim lowerZ As Integer =
Asc("z") Dim lowerM As Integer = Asc("m") Dim upperA As
Integer = Asc("A") Dim upperZ As Integer = Asc("Z") Dim
upperM As Integer = Asc("M") Convert to character array.
    Dim array As Char() = value.ToCharArray
array = value.ToCharArray
Loop over string. Dim i As Integer
For i = 0 To array.Length - 1
Convert to integer.
Dim number As Integer = Asc(array(i)) Shift letters.
If ((number >= lowerA) AndAlso (number <= lowerZ)) Then
If (number > lowerM) Then number -= 13
Else
number += 13 End If
ElseIf ((number >= upperA) AndAlso (number <= upperZ)) Then
If (number > upperM) Then number -= 13 Else
number += 13 End If
End If
Convert to character. array(i) = Chr(number) Next i
EndTime = GetTickCount() / 1000
ElapsedTime = (EndTime - StartTime) lblLama.Text =
ElapsedTime lblLama.Text = Format(ElapsedTime,
"#####0.000")
' Return string.
Return New String(array) End Function
Public Function DecrypRot13(ByVal value As String) As String'
Could be stored as integers directly.

```



```

Dim lowerA As Integer = Asc("a") Dim lowerZ As Integer =
upperM As Integer = Asc("M") Convert to character array.
'Dim array As Char() = value.ToCharArrayarray =
value.ToCharArray
' Loop over string.Dim i As Integer
For i = 0 To array.Length - 1
' Convert to integer.
Dim number As Integer = Asc(array(i))
' Shift letters.
If ((number >= lowerA) AndAlso (number <= lowerZ)) ThenIf
(number
    > lowerM) Then number -= 13Else
number += 13End If
ElseIf ((number >= upperA) AndAlso (number <= upperZ)) ThenIf
(number > upperM) Then number -= 13Else
number += 13End If
End If
' Convert to character. array(i) = Chr(number) Next i
' Return string.
Return New String(array)End Function
Private Sub btnDekripsi_Click(ByVal sender As System.Object,
ByVal e AsSystem.EventArgs) Handles btnDekripsi.Click
txtPlainteks1.Text = DecrypRot13(txtCipherteksROT.Text)key =
    txtKey.Text
PlainText2 = Decrypt(key, txtPlainteks1.Text)txtPlainteks2.Text =
    PlainText2
btnDekripsi.Enabled = False EndTime = GetTickCount() / 1000
ElapsedTime = (EndTime - StartTime)
lblLama.Text = Format(ElapsedTime, "#####0.000")
btnSimpan.Enabled = True
End Sub

```

```

Private Sub btnSimpan_Click(ByVal sender As System.Object,
ByVal e
    AsSystem.EventArgs) Handles btnSimpan.Click
SaveFileDialog1.Filter = "CipherText files (.hyb)|.hyb"
    SaveFileDialog1.ShowDialog()
If SaveFileDialog1.FileName <> "" Then
Using SW As New IO.StreamWriter(SaveFileDialog1.FileName,
    False) SW.Write(txtCipherteksROT.Text)
End Using
End If
btnSimpan.Enabled = False MsgBox("Cipherteks sudah disimpan")
    txtCipherteksRFC.Text = "" txtCipherteksROT.Text = ""
    txtPlainteks.Text = "" txtPlainteks1.Text = ""
    lblFilePesan.Text = "" lblJumHuruf.Text = ""
Plainteks1 = "" PlainText2 = ""array = "" txtPlainteks.Text = ""
txtCipherteksRFC.Visible = True
    txtCipherteks.Visible = False EndTime =
    GetTickCount() /
    1000 ElapsedTime = (EndTime -
    StartTime)lblLama.Text = ElapsedTime
lblLama.Text = Format(ElapsedTime, "#####0.000")
btnDekripsi.Enabled = False btnEnkripsiRFC.Enabled = False
    btnSimpan.Enabled = False
End Sub
Private Sub btnBersih_Click(ByVal sender As System.Object,
ByVal e
    AsSystem.EventArgs) Handles btnBersih.Click
txtCipherteksRFC.Text = ""txtCipherteksROT.Text = ""txtP
    = "" txtPlainteks1.Text = "" txtPlainteks2.Text = ""
lblFilePesan.Text = "" lblJumHuruf.Text = "" txtCipherteks.Text =
""
    Plainteks1 = "" PlainText2 = "" CipherText1 = ""

```

```

array = "" btnDekripsiGab.Visible = False btnDekripsi.Visible =
    True txtCipherteks.Visible = False
    txtCipherteksRFC.Visible = True txtPlainteks.Visible =
    True txtCipherteks.Visible = False btnDekripsi.Enabled
    = False btnEnkripsiRFC.Enabled = False
    btnSimpan.Enabled = False btnDekripsiHy.Visible =
    False
    btnDekripsi.Visible = True btnDekripsi.Enabled = False

```

End Sub

```

Private Sub btnDekripsiHy_Click(ByVal sender As System.Object,
    ByVal e As System.EventArgs) Handles
    btnDekripsiHy.Click

```

```

'Dim Plainteks1 As String

```

```

Plainteks1 = DecrypRot13(txtCipherteks.Text)txtPlainteks1.Text =
    Plainteks1

```

```

Dim key As Integer = txtKey.Text PlainText2 =
    ReverseRailFence(Plainteks1)txtPlainteks2.Text =
    PlainText2
    btnDekripsiHy.Enabled = False

```

End Sub

```

Private Function ReverseRailFence(ByVal plainText As String) As
    StringDim i As Long

```

```

Dim halfCount As Long Dim cipherText As String

```

```

Dim tempString As String ' contains permutable characters

```

```

Dim tempString2 As String ' saves cr's & lf's position

```

```

Dim tempChar As String

```

```

'proses string untuk filter out cr dan lfFor i = 1 To Len(plainText)

```

```

tempChar = Mid(plainText, i, 1)

```

```

If tempChar = vbCr Then tempString2 = tempString2 + vbCr

```

```

ElseIf tempChar = vbLf Then tempString2 = tempString2 + vbLf

```

```

Else

```

```

tempString2 = tempString2 + " " tempString = tempString + tempC
End IfNext
halfCount = Len(tempString) \ 2 ' Integer division
' jika bilangan ganjil, bahagian awal adalah > bahagian akhirIf
    ((Len(tempString) Mod 2) <> 0) Then halfCount =
halfCount + 1End If
For i = 1 To (Len(tempString) \ 2)
cipherText = cipherText + Mid(tempString, i, 1)
cipherText = cipherText + Mid(tempString, halfCount + i, 1)Next
If ((Len(tempString) Mod 2) <> 0) Then
cipherText = cipherText + Mid(tempString, halfCount, 1) End If
tempString = cipherText ' tempstring sekarang mengandungi string
plain tanpa cr + If
'gabung balik string dengan cr dan lfFor i = 1 To Len(tempString2)
tempChar = Mid(tempString2, i, 1)If tempChar = " " Then
ReverseRailFence = ReverseRailFence + Mid(tempString, 1, 1)
tempString = Mid(tempString, 2)
Else
ReverseRailFence = ReverseRailFence + tempCharEnd If
Next
End Function
Private Sub btnDekripsiGab_Click(ByVal sender As
System.Object, ByVal eAs System.EventArgs) Handles
btnDekripsiGab.Click
key = txtKey.Text
Plainteks1 = txtPlainteks1.Text PlainText2 = Decrypt(key, P
txtPlainteks2.Text = PlainText2
End Sub
End Class

```

Lampiran 2

KARTU
BIMBINGAN

Buku Laporan Kegiatan Akademik Mahasiswa Fakultas SAINTEK UIN SU Medan

KARTU BIMBINGAN SKRIPSI

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Prog. Studi :	Ilmu Komputer	SK Pembimbing :	
Judul Skripsi : Menjaga Kerahasiaan File dengan Menggunakan Metode Rail Fence Cipher dan ROT-13			

P E R T	PEMBIMBING I			PEMBIMBING II		
	Tgl.	Materi Bimbingan	Tanda Tangan	Tgl.	Materi Bimbingan	Tanda Tangan
I	2/10 2021	Bimbingan BAB I, II, III		4/10 2021	Bimbingan Proposal Skripsi BAB I, II, III	
II	25/10 2021	Revisi Perumitan		11/10 2021	Perdalam diperjelas Latar belakang dan Penulisan	
III	4/11 2021	ACC Proposal Skripsi		18/10 2021	Acc Proposal Skripsi	
IV	14/2022 07	Revisi BAB IV		14/2022 07	Menambahkan Halaman	
V	7/2022 07	Revisi BAB IV dan BAB V		20/2022 07	Revisi Penulisan BAB IV dan V	

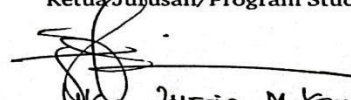
32

Catatan: Pada saat bimbingan, kartu ini harus diisi dan ditandatangani oleh pembimbing

Buku Laporan Kegiatan Akademik Mahasiswa Fakultas SAINTEK UIN SU Medan

VI	27/07/2021	Acc BAB IV dan BAB V ✓	1/08/2022	P	Acc BAB IV dan BAB V ✓	27/07/2021
VII	28/07/2021	Acc sidang dan Lengkapi berkas	1/08/2022	P	Acc Sidang dan Lengkapi berkas	28/07/2021
VIII						
IX						
X						

Medan, 04 Oktober 2021
 An. Dekan
 Ketua Jurusan/Program Studi


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Catatan: Pada saat bimbingan, kartu ini harus diisi dan ditandatangani oleh pembimbing

Lampiran 3

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