Imports System.Text

Public Class Form1

Public Function Cipher(ByVal strInput As String,

ByVal intShift As Integer, Optional ByVal strCharacterSet \_

As String = "abcdefghijklmnopqrstuvwxyz" &

"ABCDEFGHIJKLMNOPQRSTUVWXYZ" & " ") As String

Dim sbEncrypt As New StringBuilder With {.Capacity = strInput.Length}

For Each c As Char In strInput

Dim intChar As Integer = strCharacterSet.IndexOf(c)

Do Until (intChar + intShift) < (strCharacterSet.Length)

intChar -= strCharacterSet.Length

Loop

sbEncrypt.Append(strCharacterSet(intChar + intShift))

Next c

Return sbEncrypt.ToString

End Function

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

txtbox2.Text = Cipher(txtbox2.Text, intShift:=1)

End Sub

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

Dim strCharacterSet As String = "abcdefghijklmnopqrstuvwxyz" & "ABCDEFGHIJKLMNOPQRSTUVWXYZ"

txtbox2.Text = Cipher(txtbox2.Text, 1, String.Join("", strCharacterSet.Reverse))

End Sub

End Class