

## LISTING PROGRAM

```
Private Declare Function GetPixel Lib "gdi32" (ByVal hdc As Long, ByVal x As Long, ByVal y As Long) As Long
Private Declare Function SetPixel Lib "gdi32" (ByVal hdc As Long, ByVal x As Long, ByVal y As Long, ByVal crColor As Long) As Long
```

```
Private Type RGBcolor
    r As Byte 'amount of red
    g As Byte 'amount of green
    b As Byte 'amount of blue
End Type
```

```
Dim arr(0 To 9) As Control
```

```
Dim r(0 To 150, 0 To 150) As Single
Dim g(0 To 150, 0 To 150) As Single
Dim b(0 To 150, 0 To 150) As Single
```

```
Dim NilaiR(0 To 150, 0 To 150) As Single
Dim NilaiG(0 To 150, 0 To 150) As Single
Dim NilaiB(0 To 150, 0 To 150) As Single
```

```
Dim data(0 To 256) As RGBcolor
Dim sum(0 To 256) As Double
```

```
Dim TempLong As Long
Dim TempCol As RGBcolor
Dim RGBHasil As RGBcolor
Dim RGBAsli As RGBcolor
```

```

Dim h1(3, 3), h2(3, 3) As Single
Dim GlobalFill As Integer
Dim x2(11, 1000, 1000) As Integer
Dim keliling(4, 11) As Double
Dim luas(4, 11) As Double
Dim pesan As String

```

```

Dim x, y As Byte
Dim i, now As Integer

```

```

Private Sub Command1_Click()
    CommonDialog1.ShowOpen
    Picture1.Picture = LoadPicture(CommonDialog1.FileName)
End Sub

```

```

Private Sub Command5_Click()
    CommonDialog2.ShowOpen
    Picture13.Picture = LoadPicture(CommonDialog2.FileName)
End Sub

```

```

Sub LoadPic(pesan)
    Picture2.Picture = LoadPicture(CurDir() & "..\gambar\" & pesan & " (1).jpg")
    Picture3.Picture = LoadPicture(CurDir() & "..\gambar\" & pesan & " (2).jpg")
    Picture4.Picture = LoadPicture(CurDir() & "..\gambar\" & pesan & " (3).jpg")
    Picture5.Picture = LoadPicture(CurDir() & "..\gambar\" & pesan & " (4).jpg")
    Picture6.Picture = LoadPicture(CurDir() & "..\gambar\" & pesan & " (5).jpg")
    Picture7.Picture = LoadPicture(CurDir() & "..\gambar\" & pesan & " (6).jpg")
    Picture8.Picture = LoadPicture(CurDir() & "..\gambar\" & pesan & " (7).jpg")
    Picture9.Picture = LoadPicture(CurDir() & "..\gambar\" & pesan & " (8).jpg")
    Picture10.Picture = LoadPicture(CurDir() & "..\gambar\" & pesan & " (9).jpg")
    Picture11.Picture = LoadPicture(CurDir() & "..\gambar\" & pesan & "
(10).jpg")

```

End Sub

Sub GetGrayscalePoint(data As Control, x2, y2)

    warna = GetPixel(data.hdc, x2, y2)

    r2 = warna And RGB(255, 0, 0)

    g2 = Int((warna And RGB(0, 255, 0)) / 256)

    b2 = Int(Int((warna And RGB(0, 0, 255)) / 256) / 256)

    GlobalFill = Int((r2 + g2 + b2) / 3)

End Sub

Sub ToGrayscale(data As Control, n)

    For x = 1 To 150

        For y = 1 To 150

            GetGrayscalePoint data, x, y

            x2(n, x, y) = GlobalFill

            SetPixel data.hdc, x, y, RGB(GlobalFill, GlobalFill, GlobalFill)

        Next

    Next

End Sub

Sub EdgeDetection(data As Control, n)

    keliling(now, n) = 0

    If now = 1 Then keliling(0, n) = 0

    For x = 1 To 150

        For y = 1 To 150

            z1 = 0

            z2 = 0

            For u1 = -1 To 1

                For u2 = -1 To 1

                    z1 = z1 + h1(u1 + 2, u2 + 2) \* x2(n, x + u1, y + u2)

                    z2 = z2 + h2(u1 + 2, u2 + 2) \* x2(n, x + u1, y + u2)

                Next u2

```

Next u1
z = Int(Abs(z1 + z2))
If z > 255 Then
    z = 255
    keliling(now, n) = keliling(now, n) + 1
    If now = 1 Then keliling(0, n) = keliling(0, n) + 1
End If
SetPixel data.hdc, x, y, RGB(z, z, z)
Next
Next

Open CurDir() & "..\hasil.txt" For Append As #1
If now = 1 Then
    If (n + 1) < 11 Then Write #1, "Lemon " & (n + 1) & " = " & keliling(now,
n)
Else
    If now = 2 Then
        Write #1, "Jeruk " & (n + 1) & " = " & keliling(now, n)
    Else
        Write #1, "Parika " & (n + 1) & " = " & keliling(now, n)
    End If
End If
End If
Close #1

End Sub

Sub Segmentasi(data As Control, n)
    luas(now, n) = 0
    If now = 1 Then luas(0, n) = 0
    For x = 1 To 150
        For y = 1 To 150
            GetGrayscalePoint data, x, y

```

```

    If GlobalFill < 220 Then
        z = 0
        luas(now, n) = luas(now, n) + 1
        If now = 1 Then luas(0, n) = luas(0, n) + 1
    Else
        z = 255
    End If
    SetPixel data.hdc, x, y, RGB(z, z, z)
Next
Next

Open CurDir() & "\.hasil.txt" For Append As #1
If now = 1 Then
    If (n + 1) < 11 Then Write #1, "Lemon " & (n + 1) & " = " & luas(now, n)
Else
    If now = 2 Then
        Write #1, "Jeruk " & (n + 1) & " = " & luas(now, n)
    Else
        Write #1, "Parika " & (n + 1) & " = " & luas(now, n)
    End If
End If
Close #1

End Sub

Sub GrayscaleAll()
    If now = 1 Then ToGrayscale Picture1, 10
    ToGrayscale Picture2, 0
    ToGrayscale Picture3, 1
    ToGrayscale Picture4, 2
    ToGrayscale Picture5, 3

```

```
ToGrayscale Picture6, 4
ToGrayscale Picture7, 5
ToGrayscale Picture8, 6
ToGrayscale Picture9, 7
ToGrayscale Picture10, 8
ToGrayscale Picture11, 9
End Sub
```

```
Sub HitungKeliling()
    GrayscaleAll
```

```
    If now = 1 Then EdgeDetection Picture1, 10
    EdgeDetection Picture2, 0
    EdgeDetection Picture3, 1
    EdgeDetection Picture4, 2
    EdgeDetection Picture5, 3
    EdgeDetection Picture6, 4
    EdgeDetection Picture7, 5
    EdgeDetection Picture8, 6
    EdgeDetection Picture9, 7
    EdgeDetection Picture10, 8
    EdgeDetection Picture11, 9
End Sub
```

```
Sub HitungLuas()
    If now = 1 Then Segmentasi Picture1, 10
    Segmentasi Picture2, 0
    Segmentasi Picture3, 1
    Segmentasi Picture4, 2
    Segmentasi Picture5, 3
    Segmentasi Picture6, 4
    Segmentasi Picture7, 5
```

```

Segmentasi Picture8, 6
Segmentasi Picture9, 7
Segmentasi Picture10, 8
Segmentasi Picture11, 9
End Sub

```

```

Sub Proses(gambar As Control, x2, y2)
    TempLong = GetPixel(gambar.hdc, x2, y2)
    TempCol.r = TempLong And 255
    TempCol.g = (TempLong And 65280) \ 256&
    TempCol.b = (TempLong And 16711680) \ 65535
    tes = TempCol.r
    tes = tes + TempCol.g
    tes = tes + TempCol.b
    tes = tes / 3
    SetPixel gambar.hdc, x, y, RGB(tes, tes, tes)
    If TempCol.b < 220 And TempCol.r < 220 And TempCol.g < 220 Then
        If sum(tes) = 0 Then
            data(tes).r = TempCol.r
            data(tes).g = TempCol.g
            data(tes).b = TempCol.b
        Else
            data(tes).r = ((data(tes).r * sum(tes)) + TempCol.r) / (sum(tes) + 1)
            data(tes).g = ((data(tes).g * sum(tes)) + TempCol.g) / (sum(tes) + 1)
            data(tes).b = ((data(tes).b * sum(tes)) + TempCol.b) / (sum(tes) + 1)
        End If
        sum(tes) = sum(tes) + 1
    Else
        data(tes).r = TempCol.r
        data(tes).g = TempCol.g
        data(tes).b = TempCol.b
    End If
End Sub

```

End Sub

Private Sub Command2\_Click() 'hitung keliling

Open CurDir() & "\\hasil.txt" For Append As #1

Write #1, "Hitung Keliling Lemon"

Write #1, ""

Close #1

LoadPic "lemon"

now = 1

HitungKeliling

Picture1.Picture = LoadPicture(CommonDialog1.FileName)

Open CurDir() & "\\hasil.txt" For Append As #1

Write #1, ""

Write #1, "Hitung Keliling Jeruk"

Write #1, ""

Close #1

LoadPic "jeruk"

now = 2

HitungKeliling

Open CurDir() & "\\hasil.txt" For Append As #1

Write #1, ""

Write #1, "Hitung Keliling Parika"

Write #1, ""

Close #1

LoadPic "paprika"

now = 3

HitungKeliling



```

Open CurDir() & "..\hasil.txt" For Append As #1
Write #1, ""
Write #1, "Keliling Objek Grayscale = " & keliling(0, 10)
Write #1, ""
Close #1
End Sub

Private Sub Command4_Click() 'hitung luas
    Open CurDir() & "..\hasil.txt" For Append As #1
    Write #1, "Hitung Luas Lemon"
    Write #1, ""
    Close #1

    LoadPic "lemon"
    now = 1
    HitungLuas
    Picture1.Picture = LoadPicture(CommonDialog1.FileName)

    Open CurDir() & "..\hasil.txt" For Append As #1
    Write #1, ""
    Write #1, "Hitung Luas Jeruk"
    Write #1, ""
    Close #1

    LoadPic "jeruk"
    now = 2
    HitungLuas

    Open CurDir() & "..\hasil.txt" For Append As #1
    Write #1, ""
    Write #1, "Hitung Luas Paprika"

```

```

Write #1, ""
Close #1

LoadPic "paprika"
now = 3
HitungLuas

Open CurDir() & "..\hasil.txt" For Append As #1
Write #1, ""
Write #1, "Luas Objek Grayscale = " & luas(0, 10)
Write #1, ""
Close #1
End Sub

Private Sub Command6_Click()
    SF_sumber = (keliling(0, 10) * keliling(0, 10)) / luas(0, 10)

    SF_lemon_min = (keliling(1, 0) * keliling(1, 0)) / luas(1, 0)
    SF_lemon_max = SF_lemon_min

    SF_jeruk_min = (keliling(2, 0) * keliling(2, 0)) / luas(2, 0)
    SF_jeruk_max = SF_jeruk_min

    SF_paprika_min = (keliling(3, 0) * keliling(3, 0)) / luas(3, 0)
    SF_paprika_max = SF_paprika_min

    For i = 0 To 9
        temp = (keliling(1, i) * keliling(1, i)) / luas(1, i)
        If SF_lemon_min > temp Then SF_lemon_min = temp
        If SF_lemon_max < temp Then SF_lemon_max = temp

        temp = (keliling(2, i) * keliling(2, i)) / luas(2, i)

```

```

    If SF_jeruk_min > temp Then SF_jeruk_min = temp
    If SF_jeruk_max < temp Then SF_jeruk_max = temp

    temp = (keliling(3, i) * keliling(3, i)) / luas(3, i)
    If SF_paprika_min > temp Then SF_paprika_min = temp
    If SF_paprika_max < temp Then SF_paprika_max = temp
Next

SF_lemon_min = SF_lemon_min * 0.9
SF_lemon_max = SF_lemon_max * 1.1

SF_jeruk_min = SF_jeruk_min * 0.9
SF_jeruk_max = SF_jeruk_max * 1.1

SF_paprika_min = SF_paprika_min * 0.9
SF_paprika_max = SF_paprika_max * 1.1

If SF_sumber >= SF_lemon_min And SF_sumber <= SF_lemon_max Then
    pesan = "lemon"
ElseIf SF_sumber >= SF_jeruk_min And SF_sumber <= SF_jeruk_max Then
    pesan = "jeruk"
ElseIf SF_sumber >= SF_paprika_min And SF_sumber <= SF_paprika_max
Then
    pesan = "paprika"
End If

Open CurDir() & "\\hasil.txt" For Append As #1
Write #1, "Shape factor lemon minimum = " & SF_lemon_min
Write #1, ""
Write #1, "Shape factor lemon maximum = " & SF_lemon_max
Write #1, ""
Write #1, "Shape factor jeruk minimum = " & SF_jeruk_min

```

```

Write #1, ""
Write #1, "Shape factor jeruk maximum = " & SF_jeruk_max
Write #1, ""
Write #1, "Shape factor paprika minimum = " & SF_paprika_min
Write #1, ""
Write #1, "Shape factor paprika maximum = " & SF_paprika_max
Write #1, ""
Write #1, "Shape factor objek grayscale = " & SF_sumber
Write #1, ""
Write #1, "Objek grayscale dikenali sebagai " & pesan
Write #1, ""
Close #1

```

```

MsgBox ("image grayscale dikenali sebagai " & pesan)

```

```

LoadPic pesan

```

```

End Sub

```

```

Private Sub Command3_Click()

```

```

' RGB to Gray

```

```

For i = 0 To 256

```

```

    sum(i) = 0

```

```

Next

```

```

For x = 1 To 150

```

```

For y = 1 To 150

```

```

    Proses Picture2, x, y

```

```

    Proses Picture3, x, y

```

```

    Proses Picture4, x, y

```

```

    Proses Picture5, x, y

```

```

    Proses Picture6, x, y

```

```

    Proses Picture7, x, y

```

```

    Proses Picture8, x, y
    Proses Picture9, x, y
    Proses Picture10, x, y
    Proses Picture11, x, y
Next
Next

Open CurDir() & "..\hasil.txt" For Append As #1
Write #1, "Rata - rata RGB untuk tiap nilai grayscale hasil perhitungan :"
Write #1, ""
For i = 0 To 256
    Write #1, "Nilai grayscale = " & i & ", R = " & data(i).r & ", G = " &
data(i).g & ", B = " & data(i).b
    Write #1, ""
Next
Close #1

LoadPic pesan
MSE_r = 0
MSE_g = 0
MSE_b = 0

For x = 1 To 150
For y = 1 To 150
    TempLong = GetPixel(Picture1.hdc, x, y)
    TempCol.r = TempLong And 255
    TempCol.g = (TempLong And 65280) \ 256&
    TempCol.b = (TempLong And 16711680) \ 65535
    tes = TempCol.r
    tes = tes + TempCol.g
    tes = tes + TempCol.b
    tes = tes / 3

```

```
SetPixel Picture12.hdc, x, y, RGB(data(tes).r, data(tes).g, data(tes).b)
```

```
TempLong = GetPixel(Picture12.hdc, x, y)
```

```
RGBHasil.r = TempLong And 255
```

```
RGBHasil.g = (TempLong And 65280) \ 256&
```

```
RGBHasil.b = (TempLong And 16711680) \ 65535
```

```
TempLong = GetPixel(Picture13.hdc, x, y)
```

```
RGBAsli.r = TempLong And 255
```

```
RGBAsli.g = (TempLong And 65280) \ 256&
```

```
RGBAsli.b = (TempLong And 16711680) \ 65535
```

```
selisih = RGBHasil.r
```

```
selisih = selisih - RGBAsli.r
```

```
MSE_r = MSE_r + (selisih * selisih)
```

```
selisih = RGBHasil.g
```

```
selisih = selisih - RGBAsli.g
```

```
MSE_g = MSE_g + (selisih * selisih)
```

```
selisih = RGBHasil.b
```

```
selisih = selisih - RGBAsli.b
```

```
MSE_b = MSE_b + (selisih * selisih)
```

```
Next
```

```
Next
```

```
Text1.Text = Round(Math.Sqrt(MSE_r / (150 * 150)), 2)
```

```
Text2.Text = Round(Math.Sqrt(MSE_g / (150 * 150)), 2)
```

```
Text3.Text = Round(Math.Sqrt(MSE_b / (150 * 150)), 2)
```

```
End Sub
```

```
Private Sub Form_Load()
```

```
Open CurDir() & "\.hasil.txt" For Output As #1
```

```
Write #1, "Hasil perhitungan"
```

```
Write #1, "=====
```

```
Write #1, ""
```

```
Close #1
```

```
For i = 0 To 256
```

```
    data(i).r = 0
```

```
    data(i).g = 0
```

```
    data(i).b = 0
```

```
Next
```

```
h1(1, 1) = -1: h1(1, 2) = 0: h1(1, 3) = 1
```

```
h1(2, 1) = -2: h1(2, 2) = 0: h1(2, 3) = 2
```

```
h1(3, 1) = -1: h1(3, 2) = 0: h1(3, 3) = 1
```

```
For i = 1 To 3
```

```
    For j = 1 To 3
```

```
        h2(i, j) = h1(j, i)
```

```
    Next j
```

```
Next i
```

```
End Sub
```

## **RATA-RATA NILAI R, G DAN B UNTUK TIAP NILAI GRAY-SCALE PADA DATABASE**

**Untuk objek jeruk :**

"Nilai grayscale = 0, R = 0, G = 0, B = 0"

"Nilai grayscale = 1, R = 0, G = 0, B = 0"

"Nilai grayscale = 2, R = 0, G = 0, B = 0"

"Nilai grayscale = 3, R = 0, G = 0, B = 0"

"Nilai grayscale = 4, R = 0, G = 0, B = 0"

"Nilai grayscale = 5, R = 0, G = 0, B = 0"

"Nilai grayscale = 6, R = 0, G = 0, B = 0"

"Nilai grayscale = 7, R = 0, G = 0, B = 0"

"Nilai grayscale = 8, R = 0, G = 0, B = 0"

"Nilai grayscale = 9, R = 0, G = 0, B = 0"

"Nilai grayscale = 10, R = 0, G = 0, B = 0"

"Nilai grayscale = 11, R = 0, G = 0, B = 0"

"Nilai grayscale = 12, R = 0, G = 0, B = 0"

"Nilai grayscale = 13, R = 0, G = 0, B = 0"

"Nilai grayscale = 14, R = 0, G = 0, B = 0"

"Nilai grayscale = 15, R = 0, G = 0, B = 0"

"Nilai grayscale = 16, R = 0, G = 0, B = 0"

"Nilai grayscale = 17, R = 0, G = 0, B = 0"

"Nilai grayscale = 18, R = 0, G = 0, B = 0"

"Nilai grayscale = 19, R = 0, G = 0, B = 0"

"Nilai grayscale = 20, R = 0, G = 0, B = 0"

"Nilai grayscale = 21, R = 0, G = 0, B = 0"

"Nilai grayscale = 22, R = 0, G = 0, B = 0"

"Nilai grayscale = 23, R = 0, G = 0, B = 0"



"Nilai grayscale = 24, R = 0, G = 0, B = 0"  
"Nilai grayscale = 25, R = 0, G = 0, B = 0"  
"Nilai grayscale = 26, R = 0, G = 0, B = 0"  
"Nilai grayscale = 27, R = 0, G = 0, B = 0"  
"Nilai grayscale = 28, R = 0, G = 0, B = 0"  
"Nilai grayscale = 29, R = 0, G = 0, B = 0"  
"Nilai grayscale = 30, R = 0, G = 0, B = 0"  
"Nilai grayscale = 31, R = 0, G = 0, B = 0"  
"Nilai grayscale = 32, R = 0, G = 0, B = 0"  
"Nilai grayscale = 33, R = 0, G = 0, B = 0"  
"Nilai grayscale = 34, R = 0, G = 0, B = 0"  
"Nilai grayscale = 35, R = 0, G = 0, B = 0"  
"Nilai grayscale = 36, R = 0, G = 0, B = 0"  
"Nilai grayscale = 37, R = 0, G = 0, B = 0"  
"Nilai grayscale = 38, R = 0, G = 0, B = 0"  
"Nilai grayscale = 39, R = 0, G = 0, B = 0"  
"Nilai grayscale = 40, R = 0, G = 0, B = 0"  
"Nilai grayscale = 41, R = 0, G = 0, B = 0"  
"Nilai grayscale = 42, R = 0, G = 0, B = 0"  
"Nilai grayscale = 43, R = 0, G = 0, B = 0"  
"Nilai grayscale = 44, R = 0, G = 0, B = 0"  
"Nilai grayscale = 45, R = 0, G = 0, B = 0"  
"Nilai grayscale = 46, R = 0, G = 0, B = 0"  
"Nilai grayscale = 47, R = 0, G = 0, B = 0"  
"Nilai grayscale = 48, R = 0, G = 0, B = 0"  
"Nilai grayscale = 49, R = 0, G = 0, B = 0"  
"Nilai grayscale = 50, R = 0, G = 0, B = 0"  
"Nilai grayscale = 51, R = 0, G = 0, B = 0"  
"Nilai grayscale = 52, R = 0, G = 0, B = 0"

"Nilai grayscale = 53, R = 0, G = 0, B = 0"  
"Nilai grayscale = 54, R = 0, G = 0, B = 0"  
"Nilai grayscale = 55, R = 0, G = 0, B = 0"  
"Nilai grayscale = 56, R = 0, G = 0, B = 0"  
"Nilai grayscale = 57, R = 0, G = 0, B = 0"  
"Nilai grayscale = 58, R = 0, G = 0, B = 0"  
"Nilai grayscale = 59, R = 0, G = 0, B = 0"  
"Nilai grayscale = 60, R = 0, G = 0, B = 0"  
"Nilai grayscale = 61, R = 0, G = 0, B = 0"  
"Nilai grayscale = 62, R = 0, G = 0, B = 0"  
"Nilai grayscale = 63, R = 0, G = 0, B = 0"  
"Nilai grayscale = 64, R = 0, G = 0, B = 0"  
"Nilai grayscale = 65, R = 0, G = 0, B = 0"  
"Nilai grayscale = 66, R = 117, G = 50, B = 31"  
"Nilai grayscale = 67, R = 0, G = 0, B = 0"  
"Nilai grayscale = 68, R = 0, G = 0, B = 0"  
"Nilai grayscale = 69, R = 124, G = 54, B = 28"  
"Nilai grayscale = 70, R = 0, G = 0, B = 0"  
"Nilai grayscale = 71, R = 0, G = 0, B = 0"  
"Nilai grayscale = 72, R = 0, G = 0, B = 0"  
"Nilai grayscale = 73, R = 0, G = 0, B = 0"  
"Nilai grayscale = 74, R = 0, G = 0, B = 0"  
"Nilai grayscale = 75, R = 0, G = 0, B = 0"  
"Nilai grayscale = 76, R = 0, G = 0, B = 0"  
"Nilai grayscale = 77, R = 0, G = 0, B = 0"  
"Nilai grayscale = 78, R = 0, G = 0, B = 0"  
"Nilai grayscale = 79, R = 0, G = 0, B = 0"  
"Nilai grayscale = 80, R = 0, G = 0, B = 0"  
"Nilai grayscale = 81, R = 127, G = 65, B = 52"

"Nilai grayscale = 82, R = 141, G = 67, B = 38"  
"Nilai grayscale = 83, R = 0, G = 0, B = 0"  
"Nilai grayscale = 84, R = 149, G = 71, B = 33"  
"Nilai grayscale = 85, R = 0, G = 0, B = 0"  
"Nilai grayscale = 86, R = 0, G = 0, B = 0"  
"Nilai grayscale = 87, R = 148, G = 74, B = 39"  
"Nilai grayscale = 88, R = 0, G = 0, B = 0"  
"Nilai grayscale = 89, R = 0, G = 0, B = 0"  
"Nilai grayscale = 90, R = 0, G = 0, B = 0"  
"Nilai grayscale = 91, R = 156, G = 79, B = 37"  
"Nilai grayscale = 92, R = 143, G = 78, B = 56"  
"Nilai grayscale = 93, R = 0, G = 0, B = 0"  
"Nilai grayscale = 94, R = 154, G = 80, B = 48"  
"Nilai grayscale = 95, R = 136, G = 83, B = 65"  
"Nilai grayscale = 96, R = 139, G = 85, B = 64"  
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