

LAMPIRAN B

Program template matching berwarna

```
Dim h1(3, 3), h2(3, 3), n1, n2, pro(10) As Single
```

```
Dim x(96, 96), y(96, 96), tem1(96, 96, 3), im1(96, 96, 10) As Double
```

```
Sub proim(gam As Single)
```

```
Dim warna As Double
```

```
n1 = 0: th = 16
```

```
For i = 1 To Picture1(gam).ScaleWidth
```

```
    'n1= lbr n2 = pjg
```

```
    n1 = n1 + 1
```

```
    n2 = 0
```

```
    For j = 1 To Picture1(gam).ScaleHeight
```

```
        warna = Picture1(gam).Point(i, j)
```

```
        n2 = n2 + 1
```

```
        x(n1, n2) = warna
```

```
    Next j
```

```
Next i
```

```
For i = 1 To n1
```

```
    For j = 1 To n2
```

```
        z1 = 0
```

```
        z2 = 0
```

```
        For u1 = -1 To 1
```

```
            For u2 = -1 To 1
```

```
                z1 = z1 + h1(u1 + 2, u2 + 2) * x(i + u1, j + u2)
```

```
                z2 = z2 + h2(u1 + 2, u2 + 2) * x(i + u1, j + u2)
```

```
            Next u2
```

```
        Next u1
```

```
        z = Int(Abs(z1) + Abs(z2))
```

```

y(i, j) = z
r = z And RGB(255, 0, 0)
g = Int((z And RGB(0, 255, 0)) / 256)
b = Int(Int((z And RGB(0, 0, 255)) / 256) / 256)
If gam > 3 Then Picture1(gam).PSet (i - 1, j - 1), RGB(r, g, b)
Next j
Next i

```

```

End Sub

```

```

Private Sub Command1_Click()

```

```

Dim s As Integer

```

```

For jengam = 0 To 7

```

```

    If pro(jengam) = 0 Then

```

```

        proim (jengam)

```

```

        For i = 1 To 95

```

```

            For j = 1 To 95

```

```

                If jengam <= 3 Then

```

```

                    tem1(i, j, jengam) = y(i, j)

```

```

                Else

```

```

                    im1(i, j, jengam) = y(i, j)

```

```

                End If

```

```

            Next j

```

```

        Next i

```

```

        pro(jengam) = 1

```

```

    End If

```

```

Next jengam

```

```

' template matching

```

```

lab = 0: s = 0: tem = 0

```

```

For gbr = 4 To 7
  For template = 0 To 3
    For i = 1 To n1 - 1
      For j = 1 To n2 - 1
        tem = tem + Abs(im1(i, j, gbr) - tem1(i, j, template))
      Next j
    Next i
    s = (1 - (tem / (16777215 * n1 * n2))) * 100
    Label1(lab).Caption = s
    lab = lab + 1: tem = 0
  Next template
Next gbr
End Sub

```

```

Private Sub Command2_Click()
  Dim buka
  CommonDialog1.Filter = "*.*"
  CommonDialog1.ShowOpen
  buka = CommonDialog1.FileName
  If Option1.Value Then
    Picture1(4).Picture = LoadPicture(buka)
    pro(4) = 0
  ElseIf Option2.Value Then
    Picture1(5).Picture = LoadPicture(buka)
    pro(5) = 0
  ElseIf Option3.Value Then
    pro(6) = 0
    Picture1(6).Picture = LoadPicture(buka)
  ElseIf Option4.Value Then
    Picture1(7).Picture = LoadPicture(buka)
    pro(7) = 0
  End If

```

End Sub

Private Sub Command3_Click()

Unload Me

End Sub

Private Sub Form_Load()

For i = 1 To 7

 Picture1(i).ScaleMode = 3

 Picture1(i).ScaleHeight = 93

 Picture1(i).ScaleWidth = 93

Next i

Option1.Value = True

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

For i = 1 To 10

 pro(i) = 0

Next i

End Sub