

LAMPIRAN A

Private Sub Form_Load()

```
m = 0
Num = 1
End Sub
```

Private Sub cmdOpen_Click()

```
CommonDialog1.Filter = "bitmaps(*.bmp)|*.bmp"
CommonDialog1.ShowOpen
Picture1.Picture = LoadPicture(CommonDialog1.FileName)
Num = 1
SpotListX.Clear
SpotListY.Clear
ListBufferX.Clear
ListBufferY.Clear
SpotListXSorted.Clear
SpotListYSorted.Clear
```

```
List9.Clear
List10.Clear
List11.Clear
List12.Clear
List16.Clear
List17.Clear
List18.Clear
List19.Clear
Picture1.Refresh
End Sub
```

Private Sub cmdExit_Click()

```
    If MsgBox("Apakah Anda Yakin?", _
        vbYesNo + vbExclamation, _
        "Exit Scheduling Wizard") = vbYes Then Unload Me
End Sub
```

Private Sub CmdGetTheSpot_Click()

```
'Binerisation
Dim rat As Single
Dim xx(700, 700) As Integer
thrs = 6
```

```

rat = 0: m = 0
For i = 1 To Picture1.Width Step 15
    m = m + 1
    n = 0
    For j = 1 To Picture1.Height Step 15
        warna = Picture1.Point(i, j)
        r = warna And RGB(255, 0, 0)
        g = Int(warna And RGB(0, 255, 0) / 256)
        b = Int(Int((warna And RGB(0, 0, 255)) / 256) / 256)
        n = n + 1
        p = (r + b + g) / 3
        rat = rat + p
        a = Int(256 / thrs)
        p = a * Int(p / a)
        xx(m, n) = p
    Next j
Next i
rat = rat / (m * n)

For i = 1 To m
    For j = 1 To n
        If xx(i, j) < rat Then p = 0 Else p = 255
        Picture1.PSet (15 * (i - 1) + 1, 15 * (j - 1) + 1), RGB(p, p, p)
    Next j
Next i

```

'Get The Spot!

Dim first, second As Long

```

For j = 1 To Picture1.Height Step 15
    For i = 1 To Picture1.Width Step 15
        warna = Picture1.Point(i, j)
        r = warna And RGB(255, 0, 0)
        g = Int(warna And RGB(0, 255, 0) / 256)
        b = Int(Int((warna And RGB(0, 0, 255)) / 256) / 256)
        first = (r + g + b) / 3
        If first < 128 Then first = 0 Else first = 255

        warna = Picture1.Point(i + 15, j)
        r = warna And RGB(255, 0, 0)
        g = Int(warna And RGB(0, 255, 0) / 256)
        b = Int(Int((warna And RGB(0, 0, 255)) / 256) / 256)
        second = (r + g + b) / 3
        If second < 128 Then second = 0 Else second = 255
    Next i
Next j

```

```

        If (first = 255 And second = 0) Or (first = 0 And second = 255) Then
            SpotListX.AddItem (i)
            SpotListY.AddItem (j)

        End If
    Next i

Next j

Picture1.Refresh

End Sub

Private Sub CmdSet_Click()

    Dim p, l As Integer

    p = Picture1.Width
    l = Picture1.Height

    'Count and set picture limitation
    If (Trim(TxtXPercent.Text) <> "") And (Trim(TxtYPercent.Text) <> "") Then
        Dot(1).X = Round(p * (100 - Int(TxtXPercent.Text)) / 100)
        Dot(1).Y = Round(l * (100 - Int(TxtYPercent.Text)) / 100)

        Dot(2).X = Round(p * (Int(TxtXPercent.Text)) / 100)
        Dot(2).Y = Dot(1).Y

        Dot(3).X = Dot(1).X
        Dot(3).Y = Round(l * (Int(TxtYPercent.Text)) / 100)

        Dot(4).X = Round(p * (Int(TxtXPercent.Text)) / 100)
        Dot(4).Y = Round(l * (Int(TxtYPercent.Text)) / 100)

        For i = 1 To 4
            Picture1.PSet (Dot(i).X, Dot(i).Y), RGB(0, 255, 0)
        Next i

        CmdDrawLines.Enabled = True

    Else: MsgBox "Please Set Percentage", vbOKOnly, "Warning"
    End If
End Sub

```

Private Sub CmdDrawLines_Click()

'upper lines

```
For i = Dot(1).X To Dot(2).X Step 45
    Picture1.PSet (i, Dot(1).Y), RGB(100, 255, 100)
Next i
```

'bottom lines

```
For i = Dot(3).X To Dot(4).X Step 45
    Picture1.PSet (i, Dot(3).Y), RGB(100, 255, 100)
Next i
```

'left lines

```
For i = Dot(1).Y To Dot(3).Y Step 45
    Picture1.PSet (Dot(1).X, i), RGB(100, 255, 100)
Next i
```

'right lines

```
For i = Dot(2).Y To Dot(4).Y Step 45
    Picture1.PSet (Dot(2).X, i), RGB(100, 255, 100)
Next i
```

End Sub

Private Sub CmdMoveUp_Click()

'Move

```
If OpUp.Value = True Then
    Dot(1).Y = Dot(1).Y + (Int(TxtMoveUp.Text) * 15)
    Dot(2).Y = Dot(1).Y
End If
```

```
If OpDown.Value = True Then
    Dot(3).Y = Dot(3).Y - (Int(TxtMoveUp.Text) * 15)
    Dot(4).Y = Dot(3).Y
End If
```

```
If OpLeft.Value = True Then
    Dot(1).X = Dot(1).X + (Int(TxtMoveUp.Text) * 15)
    Dot(3).X = Dot(1).X
End If
```

```
If OpRight.Value = True Then
    Dot(2).X = Dot(2).X - (Int(TxtMoveUp.Text) * 15)
```

```
Dot(4).X = Dot(2).X  
End If
```

```
Picture1.Refresh
```

```
'upper lines
```

```
For i = Dot(1).X To Dot(2).X Step 45  
    Picture1.PSet (i, Dot(1).Y), RGB(100, 255, 100)  
Next i
```

```
'bottom lines
```

```
For i = Dot(3).X To Dot(4).X Step 45  
    Picture1.PSet (i, Dot(3).Y), RGB(100, 255, 100)  
Next i
```

```
'left lines
```

```
For i = Dot(1).Y To Dot(3).Y Step 45  
    Picture1.PSet (Dot(1).X, i), RGB(100, 255, 100)  
Next i
```

```
'right lines
```

```
For i = Dot(2).Y To Dot(4).Y Step 45  
    Picture1.PSet (Dot(2).X, i), RGB(100, 255, 100)  
Next i
```

```
End Sub
```

```
Private Sub CmdPicRefresh_Click()
```

```
Picture1.Refresh  
End Sub
```

```
Private Sub CmdOke_Click()
```

```
'remove blind spot X areas
```

```
For i = 0 To SpotListX.ListCount - 1  
  
    If (SpotListX.List(i) > Dot(1).X) And (SpotListX.List(i) < Dot(2).X) Then  
        ListBufferX.AddItem (SpotListX.List(i))  
        ListBufferY.AddItem (SpotListY.List(i))  
    End If  
Next i
```

'remove blind spot Y areas

For i = 0 To ListBufferX.ListCount - 1

 If (ListBufferY.List(i) > Dot(1).Y) And (ListBufferY.List(i) < Dot(3).Y) Then
 SpotListXSorted.AddItem (ListBufferX.List(i))
 SpotListYSorted.AddItem (ListBufferY.List(i))
 End If

Next i

' Grouping

ReDim DSearch(0 To SpotListXSorted.ListCount - 1)

Dim Count, Group As Integer

Count = 1

Group = 1

For z = 0 To SpotListXSorted.ListCount - 1

 DSearch(z).X = SpotListXSorted.List(z)

 DSearch(z).Y = SpotListYSorted.List(z)

 If z = 0 Then

 DSearch(z).i = 1

 End If

 If z > 0 Then

 If SpotListYSorted.List(z) = SpotListYSorted.List(z - 1) Then

 Count = Count + 1

 End If

 If SpotListYSorted.List(z) <> SpotListYSorted.List(z - 1) Then

 Group = Count

 Count = 1

 End If

 DSearch(z).i = Count

 For a = z - Group To z - 1

 DSearch(a).g = Group

 Next a

 End If

Next z

```
For z = 0 To SpotListXSorted.ListCount - 1
    List9.AddItem (DSearch(z).i)
    List10.AddItem (DSearch(z).g)
Next z
```

Filtering

```
Dim first, cek As Boolean
Dim compare As Integer
```

```
first = True
cek = True
```

```
For z = 0 To SpotListXSorted.ListCount - 1
```

```
    If first = False Then
        If compare <> DSearch(z).g Then
            first = True
        End If
    End If
```

```
    If first = True Then
        compare = DSearch(z).g
```

```
        If DSearch(z).g < 11 And cek = True Then
```

```
            For a = 0 To compare - 1
                List11.AddItem (DSearch(z + a).X)
                List12.AddItem (DSearch(z + a).Y)
                List16.AddItem (DSearch(z + a).i)
                List17.AddItem (DSearch(z + a).g)
            Next a
```

```
            If DSearch(z).g = 10 Then cek = False
```

```
        End If
```

```
        first = False
```

```
    End If
Next z
```



```

'select
Dim sp As Integer
sp = 2
first = True
For a = 0 To List11.ListCount - 1

    If sp = 2 And sp = Int(List17.List(a)) Then
        List18.AddItem (List11.List(a))
        List19.AddItem (List12.List(a))
        sp = sp + 2
    End If

    If sp = 4 And sp = Int(List17.List(a)) Then
        If Abs(List11.List(a) - List18.List(0)) > 600 * (1 + Int(Text4.Text)) Then
            List18.AddItem (List11.List(a))
            List19.AddItem (List12.List(a))
            sp = sp + 2
        End If
    End If

    If sp = 6 And sp = Int(List17.List(a)) Then
        If Abs(List11.List(a) - List18.List(0)) > 600 * (1 + Int(Text4.Text)) Then
            If Abs(List11.List(a) - List18.List(1)) > 600 * (1 + Int(Text4.Text)) Then
                List18.AddItem (List11.List(a))
                List19.AddItem (List12.List(a))
                sp = sp + 2
            End If
        End If
    End If

    If sp = 8 And sp = Int(List17.List(a)) Then
        If Abs(List11.List(a) - List18.List(0)) > 600 * (1 + Int(Text4.Text)) Then
            If Abs(List11.List(a) - List18.List(1)) > 600 * (1 + Int(Text4.Text)) Then
                If Abs(List11.List(a) - List18.List(2)) > 600 * (1 + Int(Text4.Text)) Then
                    List18.AddItem (List11.List(a))
                    List19.AddItem (List12.List(a))
                    sp = sp + 2
                End If
            End If
        End If
    End If
End If

```

```

If sp = 10 And sp = Int(List17.List(a)) Then
  If Abs(List11.List(a) - List18.List(0)) > 600 * (1 + Int(Text4.Text)) Then
    If Abs(List11.List(a) - List18.List(1)) > 600 * (1 + Int(Text4.Text)) Then
      If Abs(List11.List(a) - List18.List(2)) > 600 * (1 + Int(Text4.Text)) Then
        If Abs(List11.List(a) - List18.List(3)) > 600 * (1 + Int(Text4.Text)) Then
          List18.AddItem (List11.List(a))
          List19.AddItem (List12.List(a))
          sp = sp + 2
        End If
      End If
    End If
  End If
End If

```

Next a

'5 peak

Dim StrIndex As String

For a = 1 To 5

Peak(a).X = Int(List18.List(a - 1))

Peak(a).Y = Int(List19.List(a - 1))

Next a

'Sorted

For a = 1 To 5

For b = a + 1 To 5

If Peak(a).X > Peak(b).X Then

PeakBuff.X = Peak(a).X

PeakBuff.Y = Peak(a).Y

Peak(a).X = Peak(b).X

Peak(a).Y = Peak(b).Y

Peak(b).X = PeakBuff.X

Peak(b).Y = PeakBuff.Y

End If

Next b

Next a

Mark Peak

For a = 1 To 5

Picture1.PSet (Peak(a).X, Peak(a).Y), RGB(255, 0, 0)

Next a

End Sub

Private Sub Command11_Click()

Num = Num + 1

Label1.Caption = Num

End Sub

Private Sub cmdHitung_Click()

Dim strp, strl As String

For a = 1 To 14

MidPoint(a).X = (Mark(a).SX + Mark(a).EX) / 2

MidPoint(a).Y = (Mark(a).SY + Mark(a).EY) / 2

Lebar(a) = ((Mark(a).SX - Mark(a).EX) ^ 2 + (Mark(a).SY - Mark(a).EY) ^ 2) ^ 0.5

Next a

Panjang(1) = ((Peak(1).X - MidPoint(1).X) ^ 2 + (Peak(1).Y - MidPoint(1).Y) ^ 2) ^ 0.5

Panjang(2) = ((MidPoint(1).X - MidPoint(2).X) ^ 2 + (MidPoint(1).Y - MidPoint(2).Y) ^ 2) ^ 0.5

Panjang(3) = ((Peak(2).X - MidPoint(3).X) ^ 2 + (Peak(2).Y - MidPoint(3).Y) ^ 2) ^ 0.5

Panjang(4) = ((MidPoint(3).X - MidPoint(4).X) ^ 2 + (MidPoint(3).Y - MidPoint(4).Y) ^ 2) ^ 0.5

Panjang(5) = ((MidPoint(4).X - MidPoint(5).X) ^ 2 + (MidPoint(4).Y - MidPoint(5).Y) ^ 2) ^ 0.5

Panjang(6) = ((Peak(3).X - MidPoint(6).X) ^ 2 + (Peak(3).Y - MidPoint(6).Y) ^ 2) ^ 0.5

Panjang(7) = ((MidPoint(6).X - MidPoint(7).X) ^ 2 + (MidPoint(6).Y - MidPoint(7).Y) ^ 2) ^ 0.5

Panjang(8) = ((MidPoint(7).X - MidPoint(8).X) ^ 2 + (MidPoint(7).Y - MidPoint(8).Y) ^ 2) ^ 0.5

Panjang(9) = ((Peak(4).X - MidPoint(9).X) ^ 2 + (Peak(4).Y - MidPoint(9).Y) ^ 2) ^ 0.5

Panjang(10) = ((MidPoint(9).X - MidPoint(10).X) ^ 2 + (MidPoint(9).Y - MidPoint(10).Y) ^ 2) ^ 0.5

```

Panjang(11) = ((MidPoint(10).X - MidPoint(11).X) ^ 2 + (MidPoint(10).Y -
MidPoint(11).Y) ^ 2) ^ 0.5
Panjang(12) = ((Peak(5).X - MidPoint(12).X) ^ 2 + (Peak(5).Y - MidPoint(12).Y) ^
2) ^ 0.5
Panjang(13) = ((MidPoint(12).X - MidPoint(13).X) ^ 2 + (MidPoint(12).Y -
MidPoint(13).Y) ^ 2) ^ 0.5
Panjang(14) = ((MidPoint(13).X - MidPoint(14).X) ^ 2 + (MidPoint(13).Y -
MidPoint(14).Y) ^ 2) ^ 0.5

```

End Sub

Private Sub cmdSave_Click()

```

List8.Clear
List15.Clear

```

```

For a = 14 To 1 Step -1
    List8.AddItem (Panjang(a))
    List15.AddItem (Lebar(a))
Next a

```

```

strp = ""
strl = ""

```

```

For a = 0 To 13
    strp = strp + List8.List(a) + " "
    strl = strl + List15.List(a) + " "
Next a

```

```

Text1.Text = strp
Text2.Text = strl

```

End Sub

Private Sub Command4_Click()

```

List20.Clear
List21.Clear

```

```

For a = 14 To 1 Step -1
    List20.AddItem (Panjang(a))
    List21.AddItem (Lebar(a))
Next a

```

```

strp = ""

```

```
str1 = ""
```

```
For a = 0 To 13  
  strp = strp + List20.List(a) + " "  
  str1 = str1 + List21.List(a) + " "  
Next a
```

```
Text6.Text = strp  
Text7.Text = str1  
End Sub
```

```
Private Sub cmdVerify_Click()
```

```
Dim z As Double  
Dim p, l As Double
```

```
Batasp(1) = 71.25  
Batasp(2) = 63  
Batasp(3) = 183.25  
Batasp(4) = 115.25  
Batasp(5) = 167  
Batasp(6) = 105  
Batasp(7) = 148  
Batasp(8) = 81  
Batasp(9) = 50.25  
Batasp(10) = 119.75  
Batasp(11) = 88  
Batasp(12) = 71.25  
Batasp(13) = 221  
Batasp(14) = 108.25
```

```
Batasl(1) = 128.25  
Batasl(2) = 30.75  
Batasl(3) = 23.25  
Batasl(4) = 58  
Batasl(5) = 28.25  
Batasl(6) = 17.5  
Batasl(7) = 109.75  
Batasl(8) = 25.25  
Batasl(9) = 24.25  
Batasl(10) = 155.25  
Batasl(11) = 55.75  
Batasl(12) = 28.25  
Batasl(13) = 140.5
```

Batasl(14) = 42.75

p = 0

l = 0

For i = 1 To 14

 If List8.List(i - 1) <= (List20.List(i - 1) + Batasp(i)) Then

 If List8.List(i - 1) >= (List20.List(i - 1) - Batasp(i)) Then

 p = p + 1

 End If

 End If

 If List15.List(i - 1) <= (List21.List(i - 1) + Batasl(i)) Then

 If List15.List(i - 1) >= (List21.List(i - 1) - Batasl(i)) Then

 l = l + 1

 End If

 End If

Next i

z = (p + l) / 28 * 100

Text5.Text = z

Label2.Caption = p

Label3.Caption = l

If z > 80 Then

 MsgBox "Access Granted", vbOKOnly, "Warning"

ElseIf z <= 80 Then

 MsgBox "Access Denied", vbOKOnly, "Warning"

End If

End Sub

Private Sub Picture1_MouseDown(Button As Integer, Shift As Integer, X As Single, Y As Single)

 Call MouseDown

 Picture1.CurrentX = X

 Picture1.CurrentY = Y

 Start.X = X

 Start.Y = Y

End Sub

```
Private Sub Picture1_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
```

```
Dim BuffX As Integer, BuffY As Integer
```

```
If WriteLet = True Then
```

```
    BuffX = X
```

```
    BuffY = Y
```

```
    Picture1.Line -(BuffX, BuffY)
```

```
End If
```

```
End Sub
```

```
Private Sub Picture1_MouseUp(Button As Integer, Shift As Integer, X As Single, Y As Single)
```

```
WriteLet = False
```

```
Ends.X = X
```

```
Ends.Y = Y
```

```
'find dot
```

```
Dim ds, de As Long
```

```
Dim dbuff As Long
```

```
Dim first As Boolean
```

```
first = True
```

```
For a = 0 To SpotListXSorted.ListCount - 1
```

```
    If Abs(SpotListXSorted.List(a) - Start.X) < 300 And Abs(SpotListYSorted.List(a) - Start.Y) < 300 Then
```

```
        ds = ((Start.X - SpotListXSorted.List(a)) ^ 2 + (Start.Y - SpotListYSorted.List(a)) ^ 2) ^ 0.5
```

```
        If first = True Then
```

```
            dbuff = ds
```

```
            Mark(Num).SX = SpotListXSorted.List(a)
```

```
            Mark(Num).SY = SpotListYSorted.List(a)
```

```
            first = False
```

End If

If ds < dbuff Then

 dbuff = ds

 Mark(Num).SX = SpotListXSorted.List(a)

 Mark(Num).SY = SpotListYSorted.List(a)

End If

End If

If Abs(SpotListXSorted.List(a) - Ends.X) < 300 And Abs(SpotListYSorted.List(a) - Ends.Y) < 300 Then

 de = ((Ends.X - SpotListXSorted.List(a)) ^ 2 + (Ends.Y - SpotListYSorted.List(a)) ^ 2) ^ 0.5

If first = True Then

 dbuff = de

 Mark(Num).EX = SpotListXSorted.List(a)

 Mark(Num).EY = SpotListYSorted.List(a)

 first = False

End If

If de < dbuff Then

 dbuff = de

 Mark(Num).EX = SpotListXSorted.List(a)

 Mark(Num).EY = SpotListYSorted.List(a)

End If

End If

Next a

Picture1.PSet (Mark(Num).SX, Mark(Num).SY), RGB(255, 0, 0)

Picture1.PSet (Mark(Num).EX, Mark(Num).EY), RGB(255, 0, 0)

End Sub

Module

Public WriteLet As Boolean

Public Type Node

 X As Integer

 Y As Integer

End Type

Public Type Search

 X As Integer

 Y As Integer

 i As Integer

 g As Integer

End Type

Public Type Line

 SX As Integer

 SY As Integer

 EX As Integer

 EY As Integer

End Type

Public DSearch() As Search

Public Start As Node

Public Ends As Node

Public Num As Integer

Public Mark(1 To 14) As Line

Public MidPoint(1 To 14) As Node

Public Panjang(1 To 14) As Integer

Public Lebar(1 To 14) As Integer

Public Batasp(1 To 14) As Double

Public Batasl(1 To 14) As Double

Public Find As Node

Public Bottom(1 To 4) As Node

Public Dot(4) As Node

Public Peak(1 To 5) As Node

Public PeakBuff As Node

Public Sub MouseDown()





 WriteLet = True


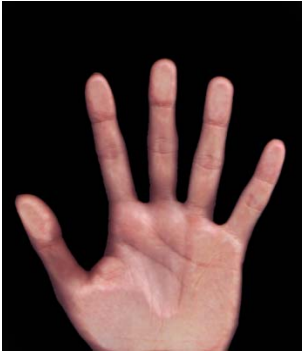


 HoldX = X





 HoldY = Y





End Sub




LAMPIRAN B

Nama File	Citra yang Digunakan
Hany01.bmp	
Hany02.bmp	
Hany03.bmp	
Hany04.bmp	

Nama File	Citra yang Digunakan
Morris 01.bmp	
Morris 02.bmp	
Morris 03.bmp	
Morris 04.bmp	

Nama File	Citra yang Digunakan
Richard01.bmp	
Richard02.bmp	
Richard03.bmp	
Richard04.bmp	

Nama File	Citra yang Digunakan
Sella01.bmp	
Sella02.bmp	
Sella03.bmp	
Sella04.bmp	

Nama File	Citra yang Digunakan
Lucky01.bmp	
Lucky02.bmp	
Lucky03.bmp	
Lucky04.bmp	