Imports System.Drawing.Bitmap

Public Class Form1

Public bmp1 As Bitmap

Private Sub GroupBox1\_Enter(sender As System.Object, e As System.EventArgs) Handles GroupBox1.Enter

End Sub

Private Sub Button1\_Click(sender As System.Object, e As System.EventArgs) Handles Button1.Click

bmp1 = New Bitmap(PictureBox1.Width, PictureBox1.Height)

If RadioButton3.Checked = True Then

If x1\_textbox.Text = "" Or x2\_textbox.Text = "" Or y1\_textbox.Text = "" Or y2\_textbox.Text = "" Then

MsgBox("Koordinatlar boş bırakılmaz")

Else

PictureBox1.Refresh()

Dim x1 As Double, x2 As Double

Dim y1 As Double, y2 As Double, x As Double, y As Double, ymax As Double, ymin As Double

Dim xmax As Double, xmin As Double

Dim egim As Double

x1 = CDbl(x1\_textbox.Text)

x2 = CDbl(x2\_textbox.Text)

y1 = CDbl(y1\_textbox.Text)

y2 = CDbl(y2\_textbox.Text)

If x1 > x2 Then

xmax = x1

xmin = x2

Else

xmax = x2

xmin = x1

End If

If y1 > y2 Then

ymax = y1

ymin = y2

Else

ymax = y2

ymin = y1

End If

egim = (y2 - y1) / (x2 - x1)

If ((x1 < 0 Or x1 > PictureBox1.Width) Or (x2 < 0 Or x2 > PictureBox1.Width)) Or ((y1 < 0 Or y1 > PictureBox1.Height) Or (y2 < 0 Or y2 > PictureBox1.Height)) Then

MsgBox("Çizmek istediğiniz şekil; sınırları aşıyor .Lütfen değerleri tekrar giriniz")

Else

If xmax <> xmin Then

If NumericUpDown1.Value = 1 Then

If egim < 1 And egim > -1 Then

For i = xmin To xmax

y = egim \* (i - x1) + y1

bmp1.SetPixel(i, y, Color.Black)

PictureBox1.Image = bmp1

Next

Else

For i = ymin To ymax

x = (i - y1) / egim + x1

bmp1.SetPixel(x, i, Color.Black)

PictureBox1.Image = bmp1

Next

End If

ElseIf NumericUpDown1.Value = 2 Then

If egim < 1 And egim > -1 Then

For i = xmin To xmax

y = egim \* (i - x1) + y1

bmp1.SetPixel(i, y, Color.Cyan)

bmp1.SetPixel(i + 1, y + 1, Color.Cyan)

PictureBox1.Image = bmp1

Next

Else

For i = ymin To ymax

x = (i - y1) / egim + x1

bmp1.SetPixel(x, i, Color.Cyan)

bmp1.SetPixel(x + 1, i + 1, Color.Cyan)

PictureBox1.Image = bmp1

Next

End If

ElseIf NumericUpDown1.Value = 3 Then

If egim < 1 And egim > -1 Then

For i = xmin To xmax

y = egim \* (i - x1) + y1

bmp1.SetPixel(i, y, Color.DarkGreen)

bmp1.SetPixel(i + 1, y + 1, Color.DarkGreen)

bmp1.SetPixel(i - 1, y - 1, Color.DarkGreen)

PictureBox1.Image = bmp1

Next

Else

For i = ymin To ymax

x = (i - y1) / egim + x1

bmp1.SetPixel(x, i, Color.DarkGreen)

bmp1.SetPixel(x + 1, i + 1, Color.DarkGreen)

bmp1.SetPixel(x - 1, i - 1, Color.DarkGreen)

PictureBox1.Image = bmp1

Next

End If

Else

If egim < 1 And egim > -1 Then

For i = xmin To xmax

y = egim \* (i - x1) + y1

bmp1.SetPixel(i, y, Color.DeepSkyBlue)

bmp1.SetPixel(i + 1, y + 1, Color.DeepSkyBlue)

bmp1.SetPixel(i - 1, y - 1, Color.DeepSkyBlue)

bmp1.SetPixel(i + 2, y + 2, Color.DeepSkyBlue)

PictureBox1.Image = bmp1

Next

Else

For i = ymin To ymax

x = (i - y1) / egim + x1

bmp1.SetPixel(x, i, Color.DeepSkyBlue)

bmp1.SetPixel(x + 1, i + 1, Color.DeepSkyBlue)

bmp1.SetPixel(x - 1, i - 1, Color.DeepSkyBlue)

bmp1.SetPixel(x - 2, i - 2, Color.DeepSkyBlue)

PictureBox1.Image = bmp1

Next

End If

End If

Else

If NumericUpDown1.Value = 1 Then

For i = ymin To ymax

bmp1.SetPixel(xmax, i, Color.DarkViolet)

PictureBox1.Image = bmp1

Next

ElseIf NumericUpDown1.Value = 2 Then

For i = ymin To ymax

bmp1.SetPixel(xmax, i, Color.DarkTurquoise)

bmp1.SetPixel(xmax + 1, i, Color.DarkTurquoise)

PictureBox1.Image = bmp1

Next

ElseIf NumericUpDown1.Value = 3 Then

For i = ymin To ymax

bmp1.SetPixel(xmax, i, Color.MediumTurquoise)

bmp1.SetPixel(xmax + 1, i, Color.MediumTurquoise)

bmp1.SetPixel(xmax - 1, i, Color.MediumTurquoise)

PictureBox1.Image = bmp1

Next

Else

For i = ymin To ymax

bmp1.SetPixel(xmax, i, Color.PaleTurquoise)

bmp1.SetPixel(xmax + 1, i, Color.PaleTurquoise)

bmp1.SetPixel(xmax - 1, i, Color.PaleTurquoise)

bmp1.SetPixel(xmax + 2, i, Color.PaleTurquoise)

PictureBox1.Image = bmp1

Next

End If

End If

End If

End If

ElseIf RadioButton2.Checked = True Then

If Merkez\_x\_textbox.Text = "" Or Merkez\_Y\_textbox.Text = "" Or yarıcap\_textbox.Text = "" Then

MsgBox("Merkez koordinatlar ve yarıçap boş bırakılmaz")

Else

PictureBox1.Refresh()

Dim mer\_x As Single, mer\_y As Single

Dim x As Integer, y As Integer

Dim r As Integer

mer\_x = CSng(Merkez\_x\_textbox.Text)

mer\_y = CSng(Merkez\_Y\_textbox.Text)

r = CInt(yarıcap\_textbox.Text)

If Merkez\_x\_textbox.Text = vbNullString Or Merkez\_Y\_textbox.Text = vbNullString Or yarıcap\_textbox.Text = vbNullString Then

MsgBox("Merkez koordinatları ve yarıçap boş bırakılamaz!")

End If

If ((mer\_x + r > PictureBox1.Height Or mer\_x + r > PictureBox1.Width Or mer\_y + r > PictureBox1.Height Or mer\_y + r > PictureBox1.Width) Or (mer\_x - r < 0 Or mer\_x - r < 0 Or mer\_y - r < 0 Or mer\_y - r < 0)) Then

MsgBox("Çizmek istediğiniz şekil; sınırları aşıyor .Lütfen değerleri tekrar giriniz")

Else

If NumericUpDown1.Value = 1 Then

For i = 0 To 360

x = CUInt(mer\_x + r \* Math.Cos(i \* 2 \* Math.PI / 180))

y = CUInt(mer\_y + r \* Math.Sin(i \* 2 \* Math.PI / 180))

bmp1.SetPixel(x, y, Color.Black)

PictureBox1.Image = bmp1

Next

ElseIf NumericUpDown1.Value = 2 Then

For i = 0 To 360

x = CUInt(mer\_x + r \* Math.Cos(i \* 2 \* Math.PI / 180))

y = CUInt(mer\_y + r \* Math.Sin(i \* 2 \* Math.PI / 180))

bmp1.SetPixel(x, y, Color.Black)

PictureBox1.Image = bmp1

x = CUInt(mer\_x + (r + 1) \* Math.Cos(i \* 2 \* Math.PI / 180))

y = CUInt(mer\_y + (r + 1) \* Math.Sin(i \* 2 \* Math.PI / 180))

bmp1.SetPixel(x, y, Color.Black)

PictureBox1.Image = bmp1

Next

ElseIf NumericUpDown1.Value = 3 Then

For i = 0 To 360

x = CUInt(mer\_x + r \* Math.Cos(i \* 2 \* Math.PI / 180))

y = CUInt(mer\_y + r \* Math.Sin(i \* 2 \* Math.PI / 180))

bmp1.SetPixel(x, y, Color.Black)

PictureBox1.Image = bmp1

x = CUInt(mer\_x + (r + 1) \* Math.Cos(i \* 2 \* Math.PI / 180))

y = CUInt(mer\_y + (r + 1) \* Math.Sin(i \* 2 \* Math.PI / 180))

bmp1.SetPixel(x, y, Color.Black)

PictureBox1.Image = bmp1

x = CUInt(mer\_x + (r - 1) \* Math.Cos(i \* 2 \* Math.PI / 180))

y = CUInt(mer\_y + (r - 1) \* Math.Sin(i \* 2 \* Math.PI / 180))

bmp1.SetPixel(x, y, Color.Black)

PictureBox1.Image = bmp1

Next

Else

For i = 0 To 360

x = CUInt(mer\_x + r \* Math.Cos(i \* 2 \* Math.PI / 180))

y = CUInt(mer\_y + r \* Math.Sin(i \* 2 \* Math.PI / 180))

bmp1.SetPixel(x, y, Color.Black)

PictureBox1.Image = bmp1

x = CUInt(mer\_x + (r + 1) \* Math.Cos(i \* 2 \* Math.PI / 180))

y = CUInt(mer\_y + (r + 1) \* Math.Sin(i \* 2 \* Math.PI / 180))

bmp1.SetPixel(x, y, Color.Black)

PictureBox1.Image = bmp1

x = CUInt(mer\_x + (r - 1) \* Math.Cos(i \* 2 \* Math.PI / 180))

y = CUInt(mer\_y + (r - 1) \* Math.Sin(i \* 2 \* Math.PI / 180))

bmp1.SetPixel(x, y, Color.Black)

PictureBox1.Image = bmp1

x = CUInt(mer\_x + (r + 2) \* Math.Cos(i \* 2 \* Math.PI / 180))

y = CUInt(mer\_y + (r + 2) \* Math.Sin(i \* 2 \* Math.PI / 180))

bmp1.SetPixel(x, y, Color.Black)

PictureBox1.Image = bmp1

Next

End If

If CheckBox1.Checked = True Then

For j = 0 To r

For i = 0 To 720

x = CUInt(mer\_x + j \* Math.Cos(i \* 2 \* Math.PI / 180))

y = CUInt(mer\_y + j \* Math.Sin(i \* 2 \* Math.PI / 180))

bmp1.SetPixel(x, y, Color.Black)

PictureBox1.Image = bmp1

Next

Next

End If

End If

End If

Else

If x\_textbox.Text = "" Or y\_textbox.Text = "" Or width\_textbox.Text = "" Or Height\_textbox.Text = "" Then

MsgBox("Sol üst köşe koordinatlar , tükseklik ve genişlik boş bırakılamaz")

Else

Dim x As Integer, y As Integer

Dim height As Integer, width As Integer

x = CStr(x\_textbox.Text)

y = CStr(y\_textbox.Text)

height = CStr(Height\_textbox.Text)

width = CStr(width\_textbox.Text)

If x\_textbox.Text = vbNullString Or y\_textbox.Text = vbNullString Or Height\_textbox.Text = vbNullString Or width\_textbox.Text = vbNullString Then

MsgBox("Sol üst köşe koordinatları ,yükseklik ve genişlik boş bırakılamaz!")

End If

If x + height > PictureBox1.Height Or x + width > PictureBox1.Width Or y + height > PictureBox1.Height Or y + width > PictureBox1.Width Then

MsgBox("Çizmek istediğiniz şekil; sınırları aşıyor .Lütfen değerleri tekrar giriniz")

Else

If NumericUpDown1.Value = 1 Then

For i = x To x + width

bmp1.SetPixel(i, y, Color.Black)

bmp1.SetPixel(i, y + height, Color.Black)

PictureBox1.Image = bmp1

Next

For i = y To y + height

bmp1.SetPixel(x, i, Color.Black)

bmp1.SetPixel(x + width, i, Color.Black)

PictureBox1.Image = bmp1

Next

ElseIf NumericUpDown1.Value = 2 Then

For i = x To x + width

bmp1.SetPixel(i, y, Color.Black)

bmp1.SetPixel(i, y + height, Color.Black)

bmp1.SetPixel(i + 1, y, Color.Black)

bmp1.SetPixel(i + 1, y + height, Color.Black)

PictureBox1.Image = bmp1

Next

For i = y To y + height

bmp1.SetPixel(x, i, Color.Black)

bmp1.SetPixel(x + width, i, Color.Black)

bmp1.SetPixel(x, i + 1, Color.Black)

bmp1.SetPixel(x + width, i + 1, Color.Black)

PictureBox1.Image = bmp1

Next

ElseIf NumericUpDown1.Value = 3 Then

For i = x To x + width

bmp1.SetPixel(i, y, Color.Black)

bmp1.SetPixel(i, y + height, Color.Black)

bmp1.SetPixel(i + 1, y, Color.Black)

bmp1.SetPixel(i + 1, y + height, Color.Black)

bmp1.SetPixel(i - 1, y, Color.Black)

bmp1.SetPixel(i - 1, y + height, Color.Black)

PictureBox1.Image = bmp1

Next

For i = y To y + height

bmp1.SetPixel(x, i, Color.Black)

bmp1.SetPixel(x + width, i, Color.Black)

bmp1.SetPixel(x, i + 1, Color.Black)

bmp1.SetPixel(x + width, i + 1, Color.Black)

bmp1.SetPixel(x, i - 1, Color.Black)

bmp1.SetPixel(x + width, i - 1, Color.Black)

PictureBox1.Image = bmp1

Next

Else

For i = x To x + width

bmp1.SetPixel(i, y, Color.Black)

bmp1.SetPixel(i, y + height, Color.Black)

bmp1.SetPixel(i + 1, y, Color.Black)

bmp1.SetPixel(i + 1, y + height, Color.Black)

bmp1.SetPixel(i - 1, y, Color.Black)

bmp1.SetPixel(i - 1, y + height, Color.Black)

bmp1.SetPixel(i + 2, y, Color.Black)

bmp1.SetPixel(i + 2, y + height, Color.Black)

PictureBox1.Image = bmp1

Next

For i = y To y + height

bmp1.SetPixel(x, i, Color.Black)

bmp1.SetPixel(x + width, i, Color.Black)

bmp1.SetPixel(x, i + 1, Color.Black)

bmp1.SetPixel(x + width, i + 1, Color.Black)

bmp1.SetPixel(x, i - 1, Color.Black)

bmp1.SetPixel(x + width, i - 1, Color.Black)

bmp1.SetPixel(x, i + 2, Color.Black)

bmp1.SetPixel(x + width, i + 2, Color.Black)

PictureBox1.Image = bmp1

Next

End If

If CheckBox2.Checked = True Then

For i = x To x + width

For j = y To y + height

bmp1.SetPixel(i, j, Color.Black)

Next

Next

End If

End If

End If

End If

End Sub

Private Sub TextBox11\_TextChanged(sender As System.Object, e As System.EventArgs) Handles y2\_textbox.TextChanged

End Sub

Private Sub Label1\_Click(sender As System.Object, e As System.EventArgs) Handles Label1.Click

End Sub

Private Sub Form1\_Load(sender As System.Object, e As System.EventArgs) Handles MyBase.Load

bmp1 = New Bitmap(PictureBox1.Width, PictureBox1.Height)

End Sub

Private Sub RadioButton3\_CheckedChanged(sender As System.Object, e As System.EventArgs) Handles RadioButton3.CheckedChanged

If RadioButton3.Checked = True Then

GroupBox2.Enabled = False

GroupBox3.Enabled = False

GroupBox4.Enabled = True

End If

End Sub

Private Sub RadioButton2\_CheckedChanged(sender As System.Object, e As System.EventArgs) Handles RadioButton2.CheckedChanged

If RadioButton2.Checked = True Then

GroupBox2.Enabled = True

GroupBox3.Enabled = False

GroupBox4.Enabled = False

End If

End Sub

Private Sub x1\_textbox\_KeyPress(sender As Object, e As System.Windows.Forms.KeyPressEventArgs)

End Sub

Private Sub x1\_textbox\_TextChanged(sender As System.Object, e As System.EventArgs) Handles x1\_textbox.TextChanged

End Sub

Private Sub RadioButton1\_CheckedChanged(sender As System.Object, e As System.EventArgs) Handles RadioButton1.CheckedChanged

If RadioButton1.Checked = True Then

GroupBox2.Enabled = False

GroupBox3.Enabled = True

GroupBox4.Enabled = False

End If

End Sub

Private Sub y1\_textbox\_TextChanged(sender As System.Object, e As System.EventArgs) Handles y1\_textbox.TextChanged

End Sub

Private Sub x2\_textbox\_TextChanged(sender As System.Object, e As System.EventArgs) Handles x2\_textbox.TextChanged

End Sub

Private Sub Merkez\_x\_textbox\_TextChanged(sender As System.Object, e As System.EventArgs) Handles Merkez\_x\_textbox.TextChanged

End Sub

Private Sub Merkez\_x\_textbox\_KeyPress(sender As System.Object, e As System.Windows.Forms.KeyPressEventArgs) Handles yarıcap\_textbox.KeyPress, y2\_textbox.KeyPress, y1\_textbox.KeyPress, x2\_textbox.KeyPress, x1\_textbox.KeyPress, Height\_textbox.KeyPress, width\_textbox.KeyPress, y\_textbox.KeyPress, x\_textbox.KeyPress, pctrheight\_textbox.KeyPress, pctrwidth\_textbox.KeyPress, Merkez\_Y\_textbox.KeyPress, Merkez\_x\_textbox.KeyPress

If Asc(e.KeyChar) <> 8 Then

e.Handled = Not IsNumeric(e.KeyChar)

End If

End Sub

Private Sub Button2\_Click(sender As System.Object, e As System.EventArgs) Handles Button2.Click

PictureBox1.Height = CStr(pctrheight\_textbox.Text)

PictureBox1.Width = CStr(pctrwidth\_textbox.Text)

End Sub

Private Sub ComboBox1\_SelectedIndexChanged(sender As System.Object, e As System.EventArgs)

End Sub

End Class