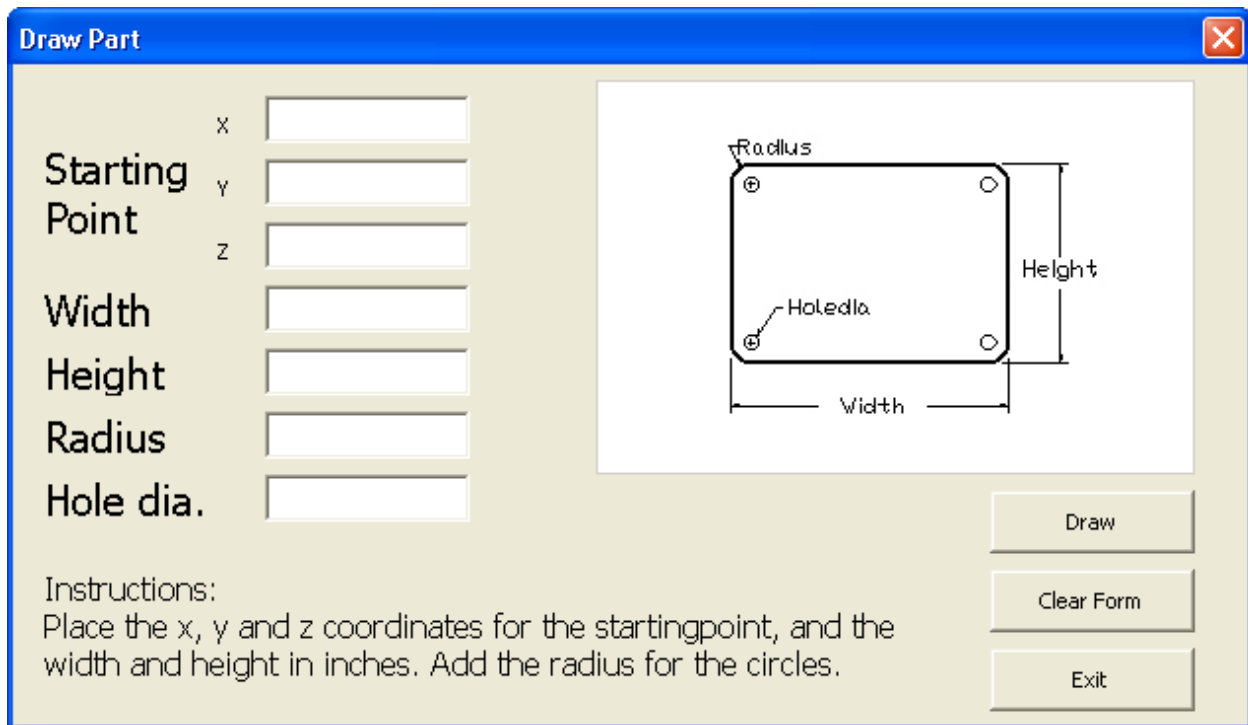


Draw a Part with 4 Holes and 4 Arcs Program

The Form



Draw Part

Starting Point
x
y
z

Width
Height
Radius
Hole dia.

Radius
Holedia
Width
Height

Draw
Clear Form
Exit

Instructions:
Place the x, y and z coordinates for the startingpoint, and the width and height in inches. Add the radius for the circles.

The Instructions

Add the code to the cmdClear subroutine.

Add the code to the cmdExit subroutine.

Add the code *Keycode* to the cmdDraw subroutine.

Go to Insert Module and type:
Sub Keycode()
 FrmPart.Show
End Sub

More Instructions

Under the General Declarations section of the code, write the subroutine: Keycode

The Code

```
Private Sub cmdClearform_Click()  
'clear the form  
    txtStartingpointX = "0.00"  
    txtStartingpointY = "0.00"  
    txtStartingpointZ = "0.00"  
    txtWidth = "0.00"  
    txtHeight = "0.00"  
    txtRadius = "0.00"  
    txtHoledia = "0.00"
```

```
End Sub
```

```
Private Sub cmdDraw_Click()  
'draw the part  
    Keycode  
End Sub
```

```
Private Sub cmdExit_Click()  
'unload and end program  
    Unload Me  
    End  
End Sub
```

More Code

Sub keycode()

'Define the starting and centerpoint arrays,
width, height and radius

```
Dim objArc As AcadArc
Dim objLine As AcadLine
Dim objCircle As AcadCircle
Dim P1(0 To 2) As Double
Dim P2(0 To 2) As Double
Dim P3(0 To 2) As Double
Dim P4(0 To 2) As Double
Dim P5(0 To 2) As Double
Dim P6(0 To 2) As Double
Dim P7(0 To 2) As Double
Dim P8(0 To 2) As Double
Dim P9(0 To 2) As Double
Dim P10(0 To 2) As Double
Dim P11(0 To 2) As Double
Dim P12(0 To 2) As Double
Dim Width As Double
Dim Height As Double
Dim Radius As Double
Dim Holedia As Double
Dim X1 As Double
Dim X2 As Double
Dim X3 As Double
Dim X4 As Double
Dim Y1 As Double
Dim Y2 As Double
Dim Y3 As Double
Dim Y4 As Double
```

'let the point positions 0 1 and 2 accept data
from the textboxes

```
Width = txtWidth
Height = txtHeight
Radius = txtRadius
Holedia = txtHoledia
X1 = txtStartingpointX
X2 = X1 + Radius
X4 = X1 + Width
X3 = X4 - Radius
Y1 = txtStartingpointY
Y2 = Y2 + Radius
Y4 = Y1 + Height
Y3 = Y4 - Radius
Z1 = txtStartingpointZ
```

Point assignment

```
P1(0) = X2
P1(1) = Y1
P1(2) = Z1
P2(0) = X3
P2(1) = Y1
P2(2) = Z1
```

```
P3(0) = X4
P3(1) = Y2
P3(2) = Z1
P4(0) = X4
P4(1) = Y3
P4(2) = Z1
P5(0) = X3
P5(1) = Y4
P5(2) = Z1
P6(0) = X2
P6(1) = Y4
P6(2) = Z1
P7(0) = X1
P7(1) = Y3
P7(2) = Z1
P8(0) = X1
P8(1) = Y2
P8(2) = Z1
P9(0) = X2
P9(1) = Y2
P9(2) = Z1
P10(0) = X3
P10(1) = Y2
P10(2) = Z1
P11(0) = X3
P11(1) = Y3
P11(2) = Z1
P12(0) = X2
P12(1) = Y3
P12(2) = Z1
```

'Execute the stamping with 4 hole

```
Set objLine = ThisDrawing.ModelSpace.AddLine(P1, P2)
Set objLine = ThisDrawing.ModelSpace.AddLine(P3, P4)
Set objLine = ThisDrawing.ModelSpace.AddLine(P5, P6)
Set objLine = ThisDrawing.ModelSpace.AddLine(P7, P8)
```

'Draw circle

```
Set ObjCircle = ThisDrawing.ModelSpace.AddCircle(P9, Holedia)
Set ObjCircle = ThisDrawing.ModelSpace.AddCircle(P10, Holedia)
Set ObjCircle = ThisDrawing.ModelSpace.AddCircle(P11, Holedia)
Set ObjCircle = ThisDrawing.ModelSpace.AddCircle(P12, Holedia)
```

'Draw arc

```
Set objArc = ThisDrawing.ModelSpace.AddArc(P9, Radius,
3.14159265358979, 3.14159265358979 * 1.5)
Set objArc = ThisDrawing.ModelSpace.AddArc(P10, Radius,
3.14159265358979 * 1.5, 0)
Set objArc = ThisDrawing.ModelSpace.AddArc(P11, Radius, 0,
3.14159265358979 * 0.5)
Set objArc = ThisDrawing.ModelSpace.AddArc(P12, Radius,
3.14159265358979 * 0.5, 3.14159265358979)
```

End Sub