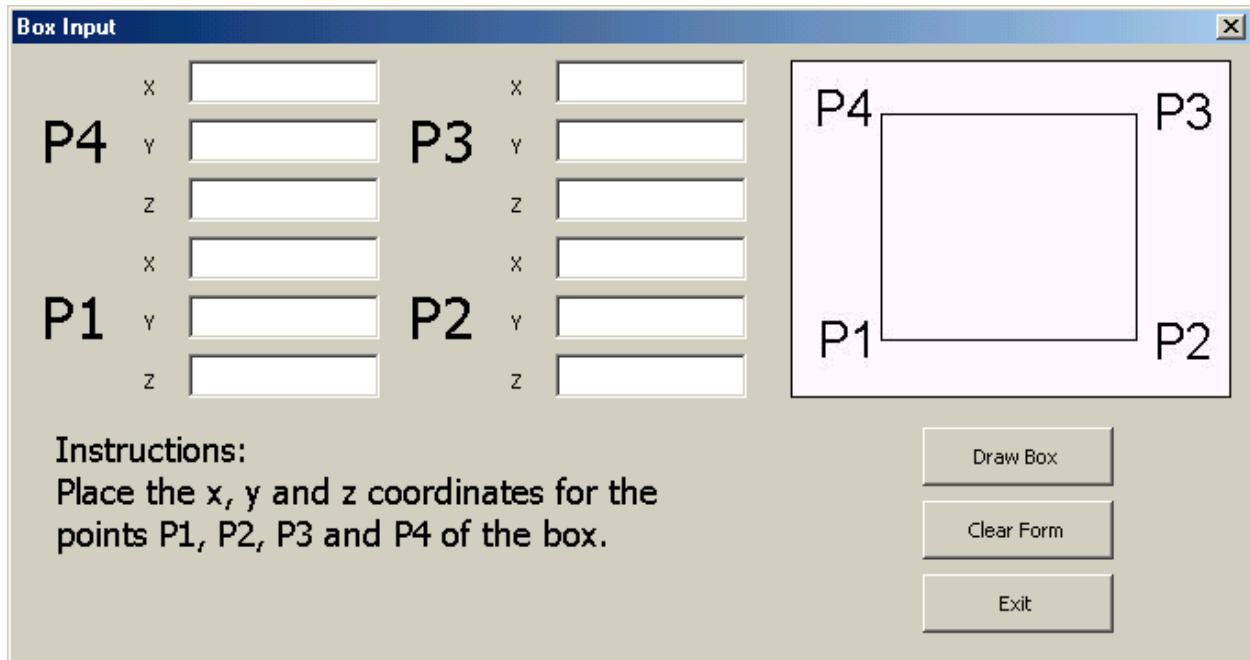


Draw a Basic Box Program

The Form



Box Input

x x

P4 y P3 y

z z

x x

P1 y P2 y

z z

P4 P3

P1 P2

Instructions:
Place the x, y and z coordinates for the points P1, P2, P3 and P4 of the box.

Draw Box

Clear Form

Exit

The Instructions

Add the code to the cmdClear subroutine.

Add the code to the cmdExit subroutine.

Add the code *CreateBox* to the cmdDrawBox subroutine.

Go to Insert Module and type:

```
Sub DrawBox ()  
    FrmBoxInput.Show  
End Sub
```

The Code

```
Private Sub cmdClear_Click()  
'clear the form  
    txtP1X = ""  
    txtP1Y = ""  
    txtP1Z = ""  
    txtP2X = ""  
    txtP2Y = ""  
    txtP2Z = ""  
    txtP3X = ""  
    txtP3Y = ""  
    txtP3Z = ""  
    txtP4X = ""  
    txtP4Y = ""  
    txtP4Z = ""  
End Sub  
  
Private Sub cmdDrawBox_Click()  
'draw the box  
    CreateBox  
End Sub  
  
Private Sub cmdExit_Click()  
'unload and end program  
    Unload Me  
End  
End Sub
```

More Instructions

Under the General Declarations section of the code, write the subroutine CreateBox.

More Code

```
Sub CreateBox()  
'define the starting and ending point arrays  
  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  
  
'let the point positions 0 1 and 2 accept datafrom  
the textboxes  
  P1(0) = txtP1X  
  P1(1) = txtP1Y  
  P1(2) = txtP1Z  
  P2(0) = txtP2X  
  P2(1) = txtP2Y  
  P2(2) = txtP2Z  
  P3(0) = txtP3X  
  P3(1) = txtP3Y  
  P3(2) = txtP3Z  
  P4(0) = txtP4X  
  P4(1) = txtP4Y  
  P4(2) = txtP4Z  
'Execute the box  
  With ThisDrawing.ModelSpace  
    .AddLine P1, P2  
    .AddLine P2, P3  
    .AddLine P3, P4  
    .AddLine P4, P1  
    .Item(.Count - 1).Update  
  End With  
End Sub
```