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1: '#####
2: 'ImportCsvData02.tcm macro for TurboCAD Pro v7 and v8
3: 'Thomas Snape June 03, 2002 http://throsn.tripod.com
4: 'This macro demonstrated a method to read 2D coordinate
5: 'data from a file in CSV format, and uses the data to
6: 'draw a graphic in the active drawing.
7: '#####
8: Option Explicit
9:
10: Sub ImportData()
11: Dim sFname As String 'path to file containing coordinate data
12: Dim sCoords() As String 'array to store coordinate data strings
13: Dim n As Integer 'counter used when resizing sCoords array
14:
15: 'STEP 1: GET PATH TO DATA FILE
16: 'Uses API call in modGetOpenFileName
17: If GetOpenFname(sFname) Then
18:     MsgBox "File to be opened:" & vbCrLf & sFname
19: Else
20:     MsgBox "Dialog was cancelled"
21:     Exit Sub
22: End If
23:
24: 'STEP 2: OPEN DATA FILE FOR INPUT
25: 'Read CSV data line by line
26: 'and save in array variable
27: On Error GoTo Errhandler01
28: Open sFname For Input As #1
29: n = 1
30: Do While Not EOF(1)
31:     ReDim Preserve sCoords(n)
32:     Line Input #1, sCoords(n)
33:     n = n + 1
34: Loop
35: Close #1 'close file when finished reading coordinates
36:
37: 'STEP 3: PARSE COORDINATE VALUES FROM DATA
38: 'STRINGS AND USE TO DRAW GRAPHIC IN DRAWING
39:
40: Dim cFirst As Long 'variable to store position of comma in strings
41: Dim x As Double 'the X coordinate for the vertex to be added
42: Dim y As Double 'the Y coordinate for the vertex to be added
43: Dim i As Integer 'index used while parsing
44: Dim j As Integer 'index used while parsing
45: Dim Gr As Graphic
46: Dim Dr As Drawing
47: Dim Grs As Graphics
48: On Error GoTo Errhandler02
49: Set Dr = Application.ActiveDrawing
50: Set Grs = Dr.Graphics
51: cFirst = 0
52: x = 0
53: y = 0
54: 'following lines read strings in sCoords array
55: 'and extract X and Y values
56: For i = 1 To UBound(sCoords)
57:     For j = 1 To Len(sCoords(i))
58:         If Mid(sCoords(i), j, 1) = "," Then
59:             cFirst = j
60:             Exit For
61:         Else
62:             End If
63:     Next j
64:

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65:     x = Val(Mid(sCoords(i), 1, cFirst - 1))
66:     y = Val(Mid(sCoords(i), cFirst + 1, Len(sCoords(i)) - cFirst + 1))
67:
68:     If i = 1 Then 'first vertex, need to create new graphic
69:         Set Gr = Grs.AddCurveBezier(x, y, 0)
70:     Else 'graphic already exists, need to add more vertices
71:         Gr.Vertices.add x, y, 0
72:     End If
73: Next i
74: Dr.ActiveView.Refresh
75: Set Gr = Nothing
76: Set Grs = Nothing
77: Set Dr = Nothing
78: Exit Sub
79: Errhandler01:
80:     MsgBox "There was a problem reading the data file."
81:     Exit Sub
82: Errhandler02:
83:     MsgBox "There was a problem drawing the graphic with the supplied data." &
vbCrLf & _
84:         "Check that the data is in the required CSV format."
85:     Set Gr = Nothing
86:     Set Grs = Nothing
87:     Set Dr = Nothing
88:     Exit Sub
89: End Sub
90:
```