Thinking 2D

This software has genuinely been developed by me, Mayank Malik -3rd Year (B.E.)

Delhi College of Engineering. I started off with learning Visual C++ around the end of
December '99 and this is the first project I have done (completely myself - without any
external help other than a few books & MSDN help). Well... not bad for starters.

If for any reason u are not able to publish it please tell me ways to improve this software
so that it comes up to your Standards.

Some of the salient features are given below. However I recommend all users to first run the application once before reading this text file so that they get a feel of the software.

- It has been built using the **Visual C++** Programming Environment.(Version 6)
- This Software finds extensive use for students of **Engineering**, **Architects**, **Fashion designers**, and school students with Machine Drawing in their syllabus.
- All the basic drawing tools which are required in a 2D CAD software are available for
 the user like line, rectangles, arcs, ellipses, chords, pies etc. Various Filling
 Styles, Pen Styles and colors can be chosen at runtime along with these tools. User can
 also add custom text and choose any font.
- The biggest advantage of the software is the <u>fully functional undo / redo</u> feature with which u can erase steps to the beginning. Also if u save a file and after some days u realize that u have made some errors and want to undo a particular line u can easily do that.
- Files are saved in the "*.2d" file format and can be opened by double clicking on them from the windows explorer.
- Variable grid sizes are displayed and the user can choose the most suitable grid size for him (4 grid sizes available). Also user can turn off displaying the grids and also choose free motion grid in which the mouse motion is independent of the grid.
- On the Status Bar the current (X, Y) coordinates are displayed when moving the mouse .Also when mouse is dragged the current (dX, dY) coordinates are displayed along with the angle of inclination.
- After the drawing is complete the user can choose the <u>Measuring Line</u> with which the default distance comes in the dialog box and can be changed to any text by the user.
- On **Right Clicking** the mouse it starts acting like a scroll bar. For this to work you'll have to stop <u>MouseLmp</u> if it is installed on your computer.
- Another advantageous feature is that it <u>displays center</u> of figures like rectangles, arcs etc. which makes it easier to draw concentric objects and measure distances.
- With the copy tool the client screen is copied to the clipboard and can be retrieved as a bitmap using your favorite image software. This helps to make this software compatible with various image handling softwares.
- Exceptionally good <u>tips</u> provide the user with all the help required to start off with this application. Users can also add their own tips in the tips file.
- The programming environment used is 32 bit and full use of **OOPS** features like classes ,polymorphism , inheritance , virtual functions derived classes and overloaded functions have been made.
- I have to do some additional work on this software like →
- 1. Making it compatible with the DXF file format that is an industry standard.

- 2. Porting a version for LINUX and MAC (a lot of help is req. in this area)
- Anyone who can help in the further development of this project is most invited . They can contact me at mailto:ma

P. S. ->

- 2. To see the sample files open the Files in the software and
 - (I). Press the GOTO the LAST STEP button
 - (ii). Press the PLAY ANIMATION button and enjoy!!!
- 3.If u have just done (step 2) then u'll realize that $\underline{I'm\ giving\ a\ FREEWARE\ product}$ (which is true 0)