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 <u>double clicking</u> 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 <u>mouse motion is independent of the grid</u>.
- 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 malikmayank@usa.net. This software is a freeware and it's source code is available for enhancing / modifying it.

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 **_I'm giving a FREEWARE product_** (which is true ☺)