Running the Example C Program under Windows NT and Microsoft Visual C++

- Create a new folder on the system to hold your files:
    c:\Temp\<name_of_your_directory>

    This directory can be on a floppy disk through Drive A.

- Get the main program *main.c* and the header file *user.h* by clicking and loading them from your Web browser and saving them under the folder that you have created.
    (Make sure that these files has the correct extension name of *.c* and *.h)*

- Compile a source program, build an execute file, and run the program using Microsoft Visual C++.

    The *Microsoft Developer Studio* running on our Windows NT workstations can be used both as a development platform (where you can create and edit an application C program) and as a target platform (where you can run the application). The procedure for creating and running a C application using Microsoft Visual C++ under Windows-95 is very similar.

    To develop a C application use *Microsoft Developer Studio* one needs to compose the source program file, to compile the program and to build the **.exe* file of the program.

    Any word processor or text editor can be used to write and edit a C program as long as the program is saved in the *text* format.

    The steps for developing a C application is illustrated using the example program, *main.c*, discussed in the tutorial. The procedure includes:

1. Open the *Microsoft Development Studio* by
    Go to the Windows NT screen menu *Start*
    Pick up the function *Programs,* then *Microsoft Visual C++4.0,* then *Microsoft Developer Studio*

2. Build A New *Project Workspace* by
    Go to the pull down menu *File*,
    Select *New*, then *Project Workspace*,
    In the *Type* frame of the *New Project Workspace* menu, select *Console Application*.
       Note: This selection will allow you to run your program in the *Console* window. When you compose an ADS application, you can select *Application* from the *New Project Workspace* menu because the program will be executed under AutoCAD, rather than in the MS Visual C++ *Console* window.
    Change the file location in the *Location* window to the directory that contains your files.
    Enter the name of your workspace, *main,* and click *Create*.

3. Insert the two C program files, *main.c* and *user.h*, into the created Project Workspace

>Go to the pull down menu *Insert*
>Select *Files into Project*
>Select and insert the files *c:\…\main.c* and *c:\ …\user.h.*

>Alternatively, you can write a new program by typing in the program in the *Console* window.

4. Compile, build and execute the executable file, **.exe,* in the *Console* by

>Go to the pull down menu *File*, select *Open*, then *main.c*. The list of the source code will appear in the Console window.
>Go to the pull down menu select *Build*, then
>>*Compile main.c*
>>*Build main.exe*
>The file, *main.exe,* will be built automatically. If no error is found, as indicated in the message menu, you can execute *main.exe* directly in Windows by selecting
>>*Execute main.exe* under *Build,* or under the MS-DOS prompt.
>A new window will pup up with the calculated results.