

HOW TO PERFORM SEPARATE COMPILATION USING MICROSOFT VISUAL C++ VERSION 6.0

Below is an example that provides step-by-step instructions to perform separate compilation. It would be to your benefit to duplicate this example on your computer. The example involves two separate source files and one separate header file. All homework and projects done by you should use separate compilation.

STEP 1. OPEN MICROSOFT VISUAL C++ VERSION 6.0

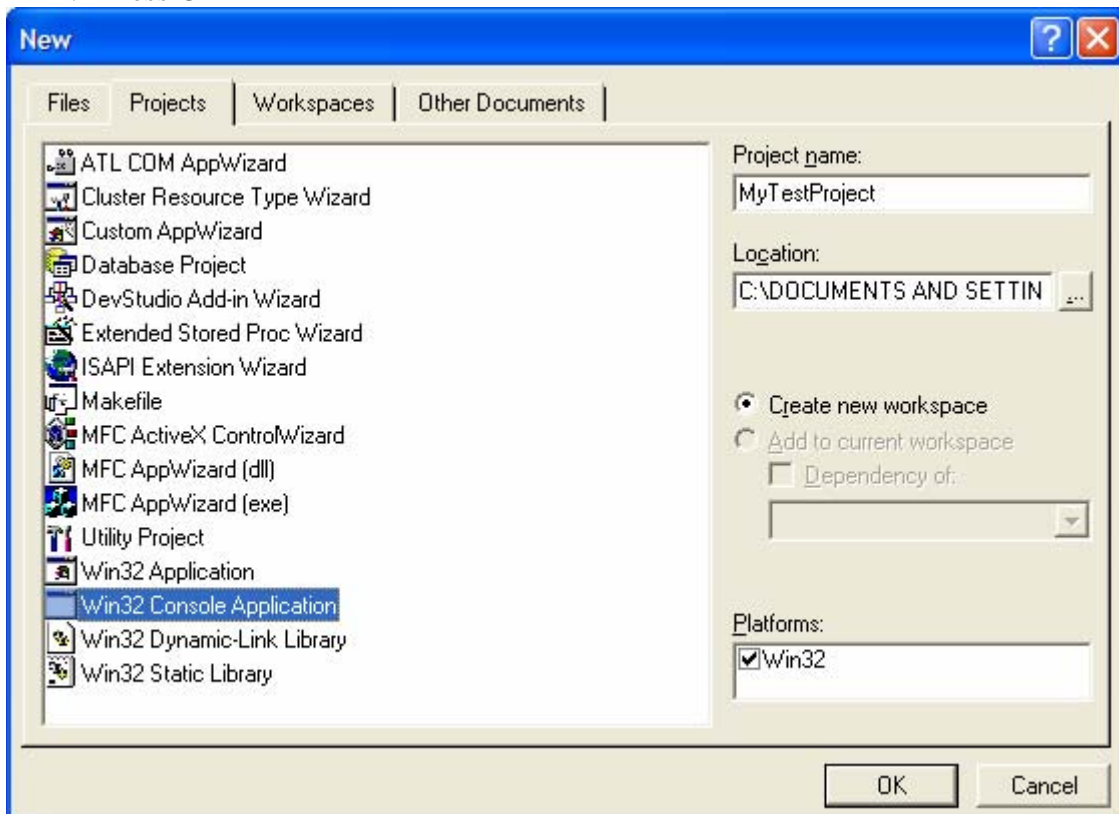
START -> ALL PROGRAMS -> MICROSOFT VISUAL STUDIO 6.0 -> MICROSOFT VISUAL C++ 6.0

STEP 2. CREATE A NEW PROJECT IN MICROSOFT VISUAL C++ 6.0

FILE -> NEW

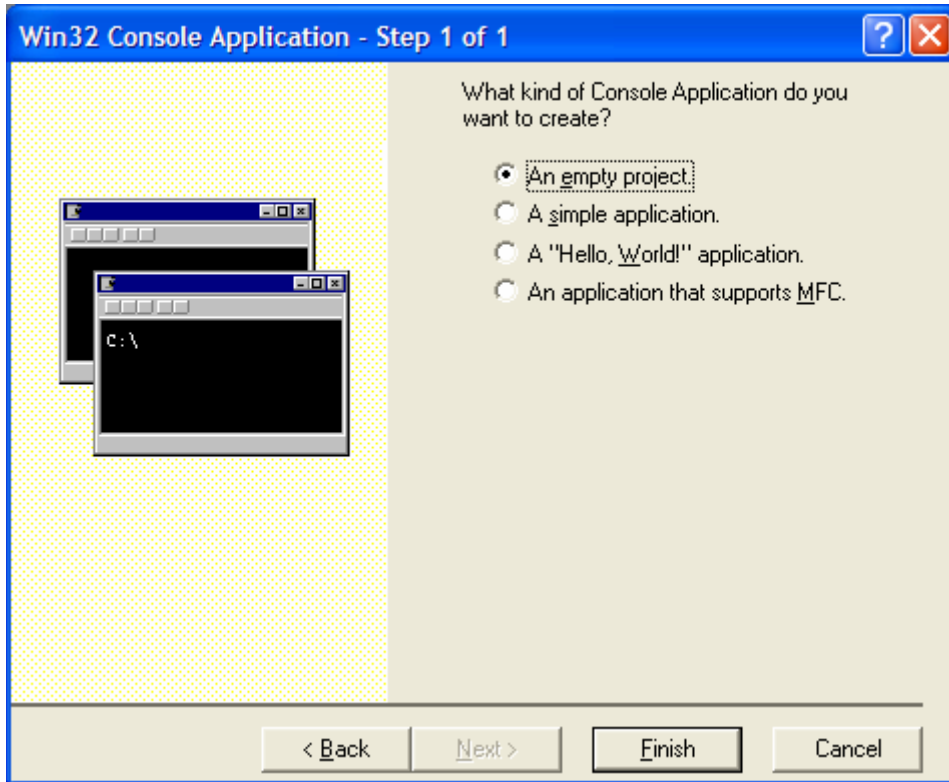
This will give you the window below.

1. Type in your project name (I called mine MyTestProject).
2. Type in location for the project (or let the default be chosen for you)
3. Highlight Win32 Console Application
4. Press OK

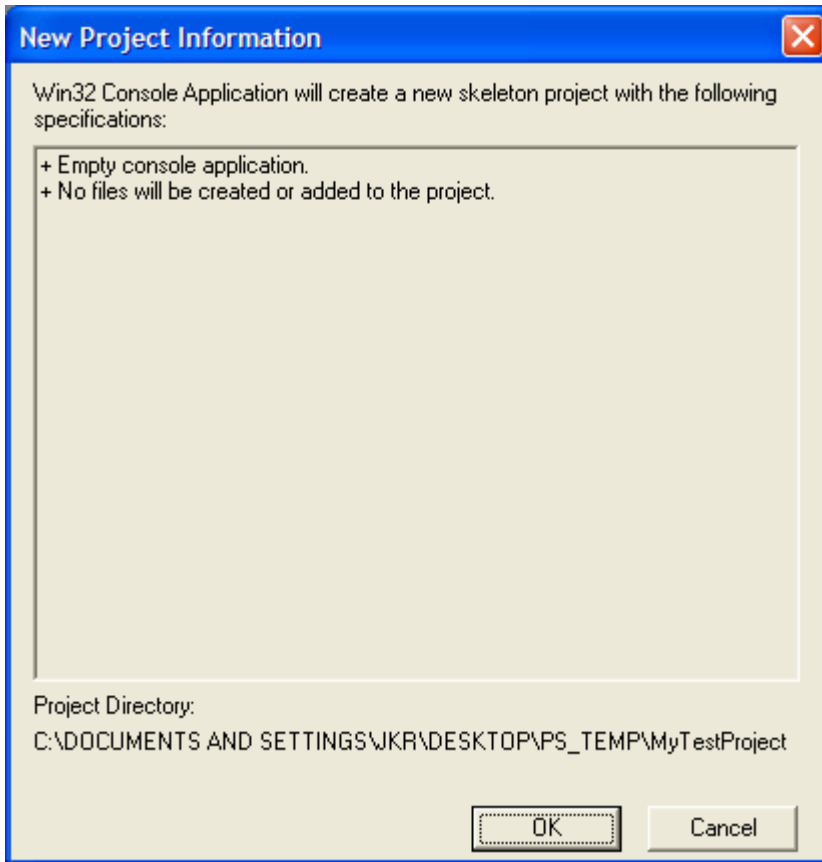


STEP 3. THE CONSOLE APPLICATION SHOULD BE AN EMPTY PROJECT.

1. Select An empty project.
2. Press Finish



STEP 4. WHEN THE NEW PROJECT INFORMATION WINDOW POPS UP,
SIMPLY PRESS OK

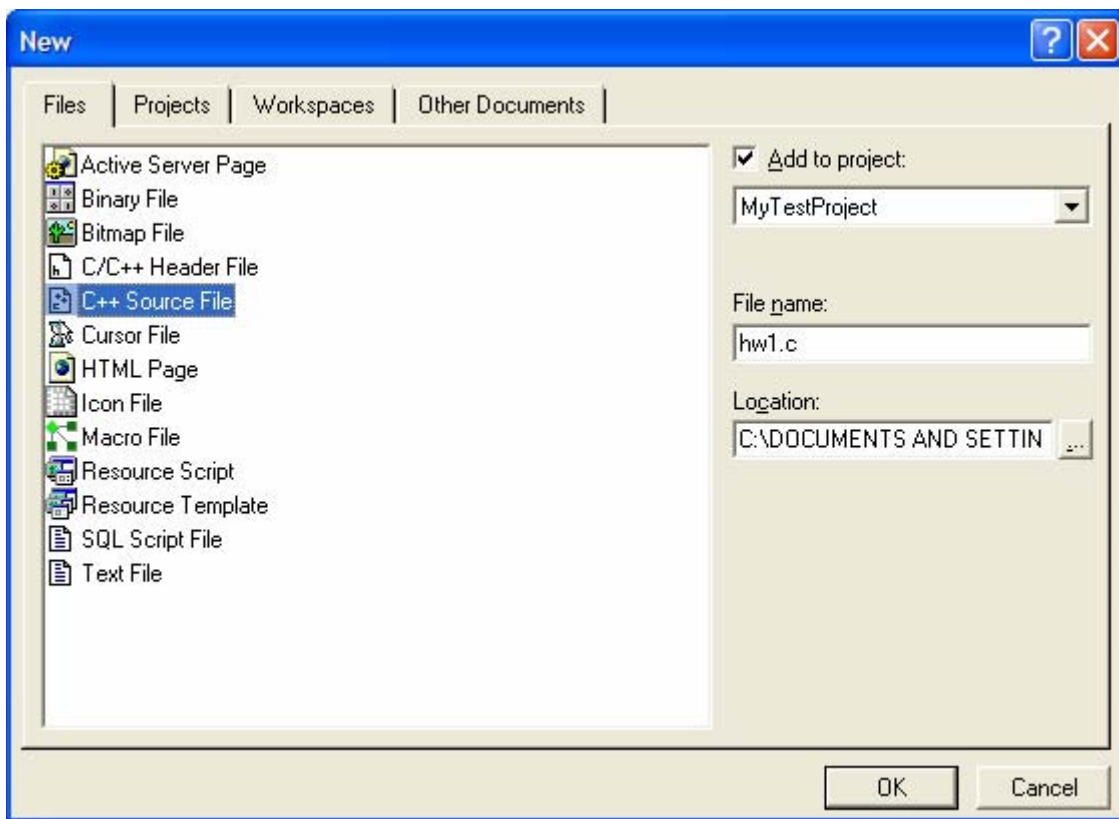


STEP 5. ADD A SOURCE FILE TO YOUR PROJECT.

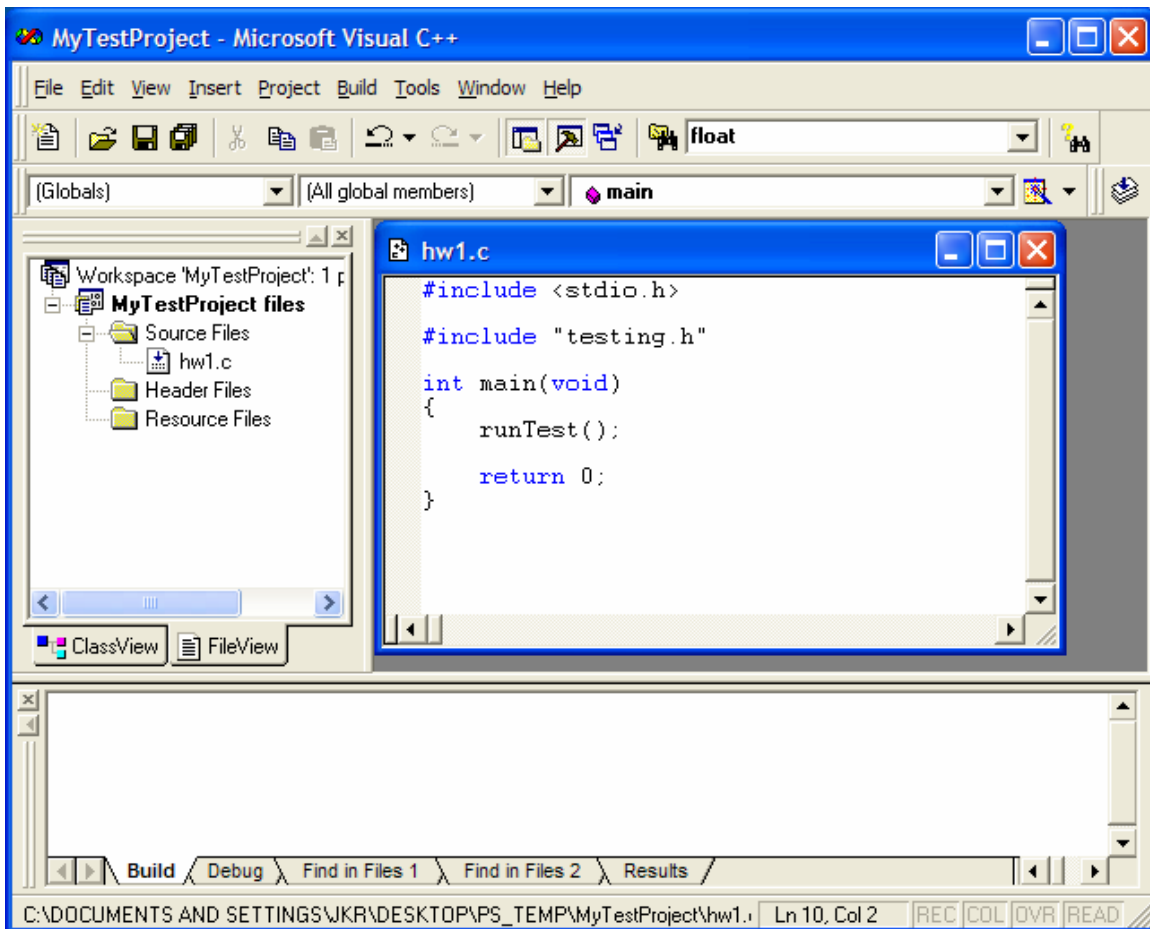
FILE -> NEW

This will give you the window below.

1. Select C++ Source File
2. Type in your file name (I called mine hw1.c).
3. Do not change the location path.
4. Press OK



5. A new source window will appear called hw1.c. Type in your code for hw1.c.
6. Click the “File View” tab and expand “Source Files” to see that hw1.c is indeed a part of the project.

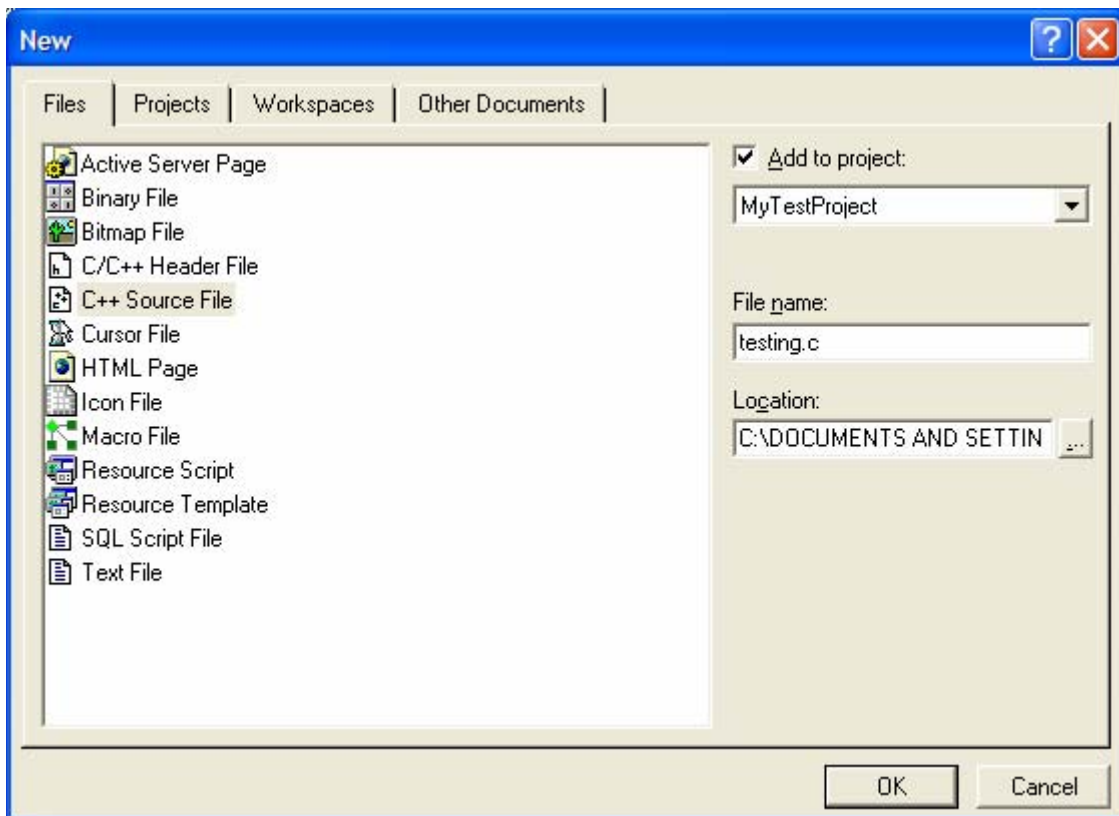


STEP 6. ADD ANOTHER SOURCE FILE TO YOUR PROJECT.

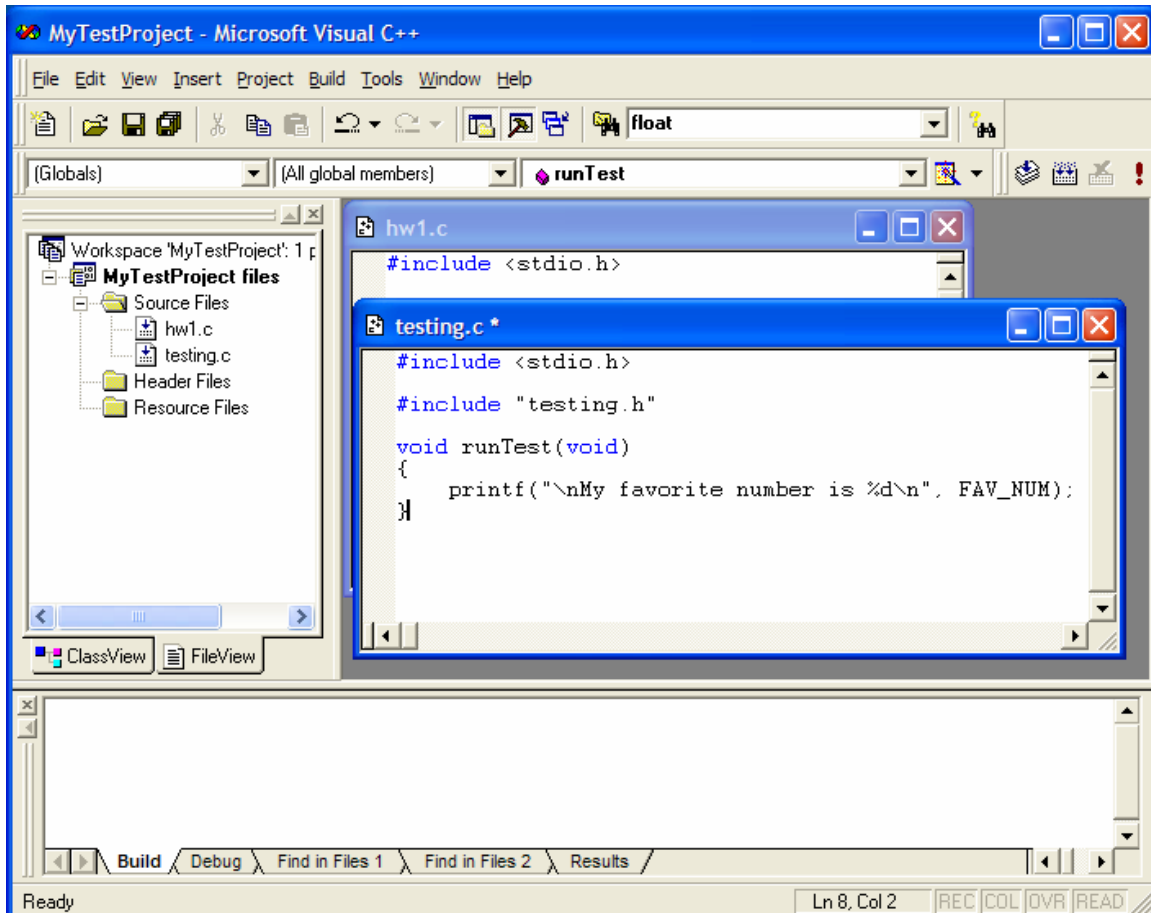
FILE -> NEW

This will give you the window below.

1. Select C++ Source File
2. Type in your file name (I called mine testing.c).
3. Do not change the location path.
4. Press OK



5. A new source window will appear called testing.c. Type in your code for testing.c.
6. Click the “File View” tab and expand “Source Files” to see that testing.c is indeed a part of the project.

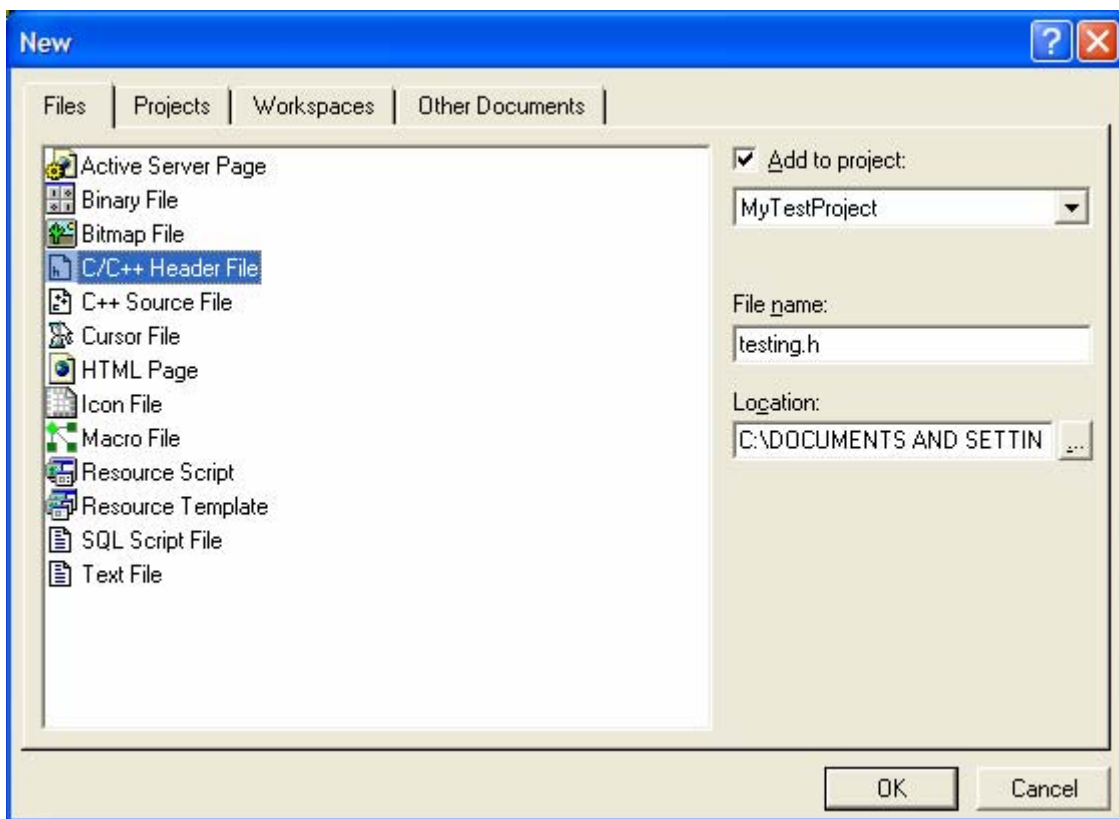


STEP 7. ADD A HEADER FILE TO YOUR PROJECT.

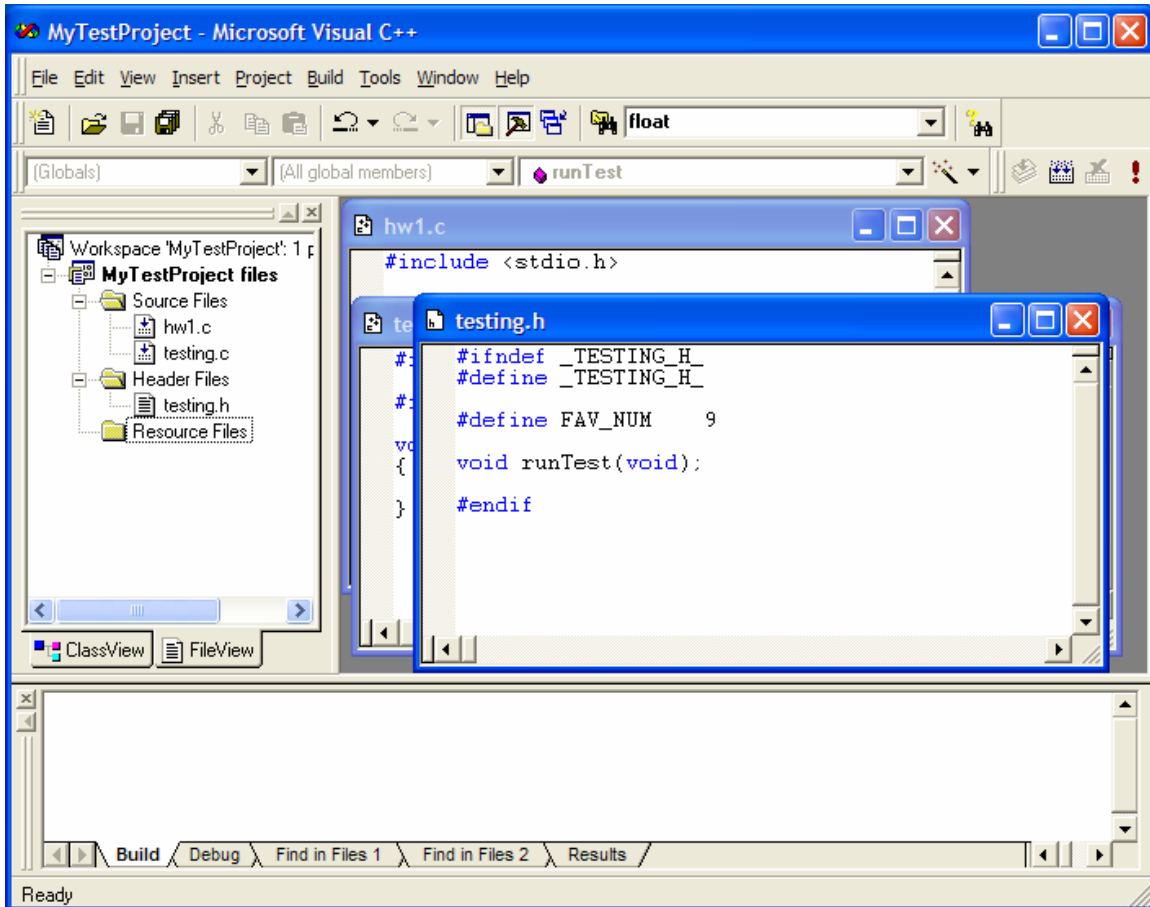
FILE -> NEW

This will give you the window below.

1. Select C/C++ Header File
2. Type in your file name (I called mine testing.h).
3. Do not change the location path.
4. Press OK



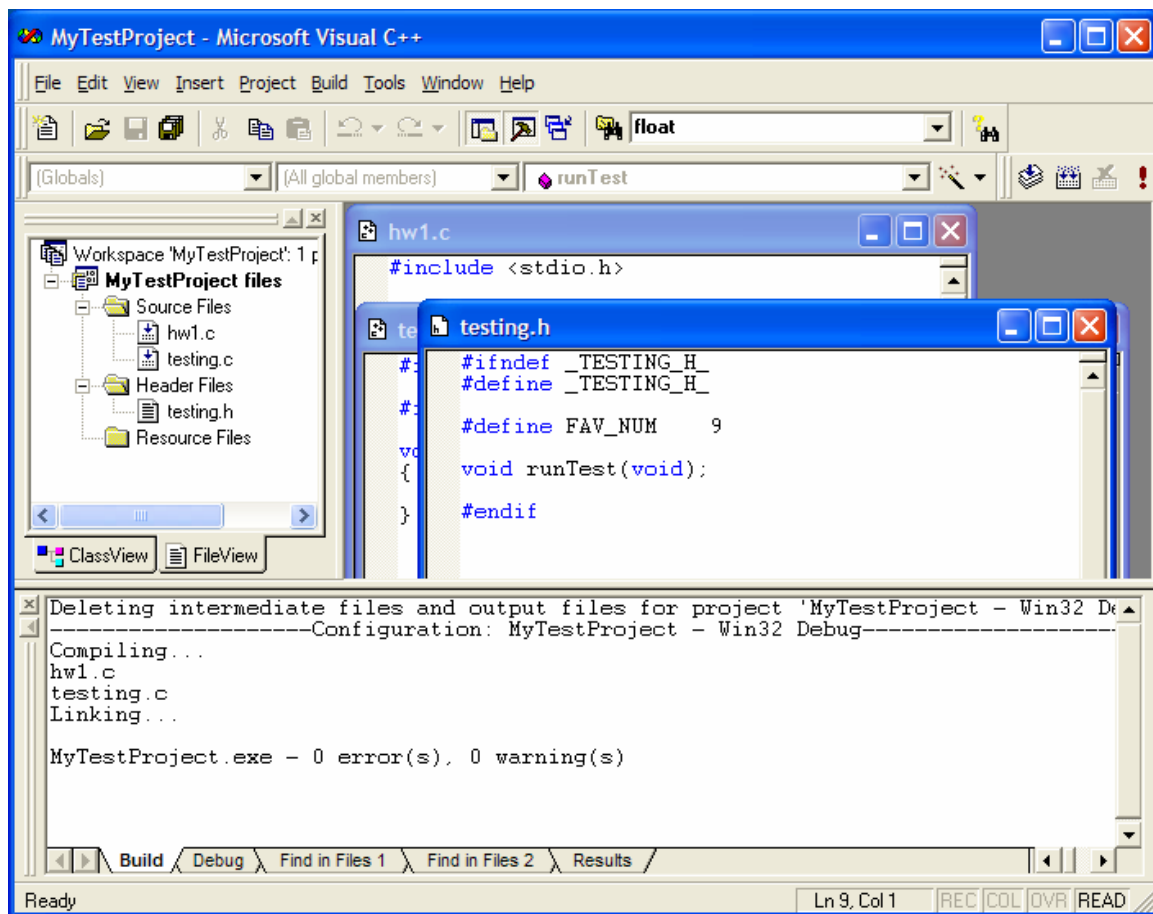
5. A new header file window will appear called testing.h. Type in your code for testing.h.
6. Click the “File View” tab and expand “Header Files” to see that testing.h is indeed a part of the project.



STEP 8. BUILD THE PROJECT.

BUILD -> REBUILD ALL

This will compile each source file individually and link all object and library code automatically to create your executable image. In the example, my executable image is called MyTestProject.exe. Make sure the “Build” tab is selected at the bottom of the application so that you can see the results of the build (as shown in my example window below).

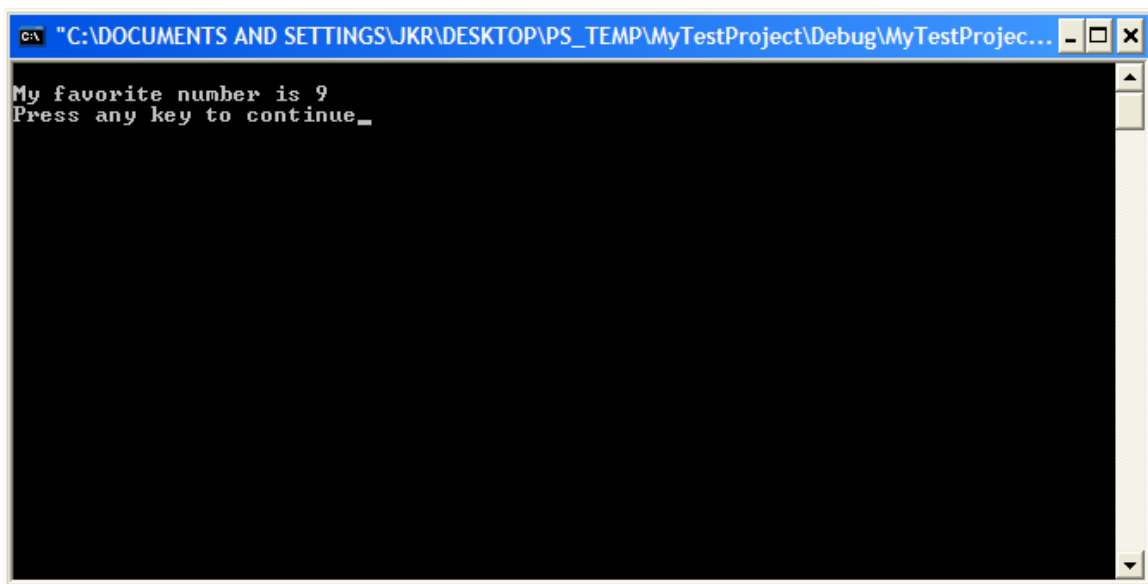


STEP 9. RUN YOUR EXECUTABLE IMAGE.

BUILD -> EXECUTE MyTestProject.exe

This will run your executable image. A DOS command window will automatically pop up as shown below. All program output to the monitor (e.g., a call to `printf()`) will be displayed in this window. Also, any expected user input from the keyboard (e.g., a call to `scanf()`) will be typed into this window.

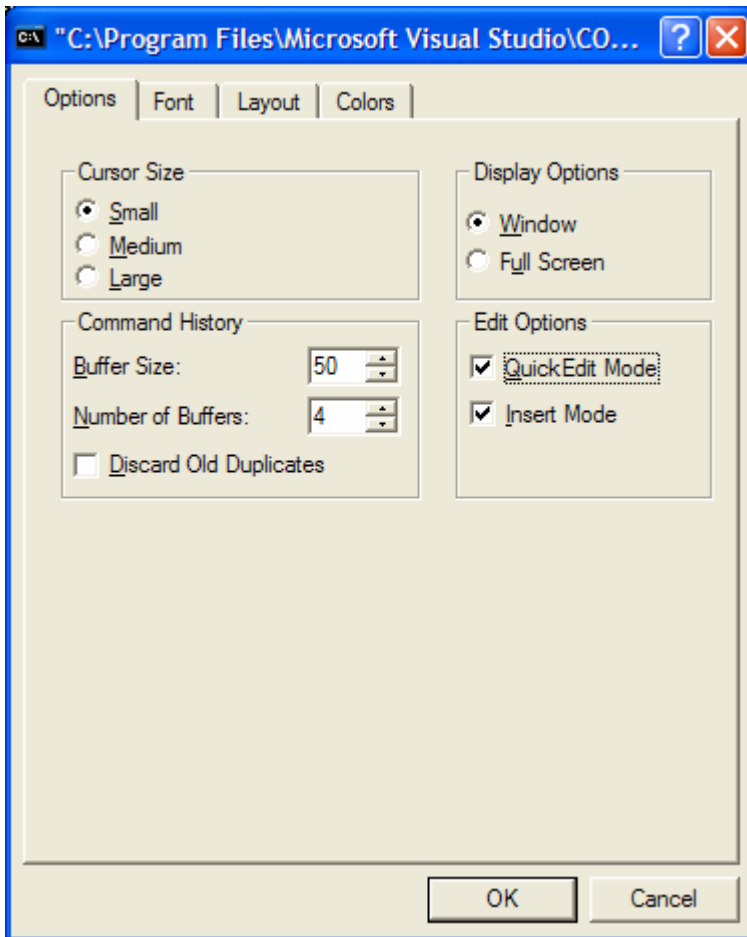
As part of your homework and project requirements, you are to submit a screen dump of your program's execution. You can do this by selecting all text from the DOS command window and pasting it into an editor such as Notepad or Word. Then, simply print out the file in which you pasted your screen dump.



IMPORTANT NOTE: If you are unable to select the text shown in the DOS Command Window, it is because the window properties need to be changed to "Quick Edit" mode. You can do this as follows:

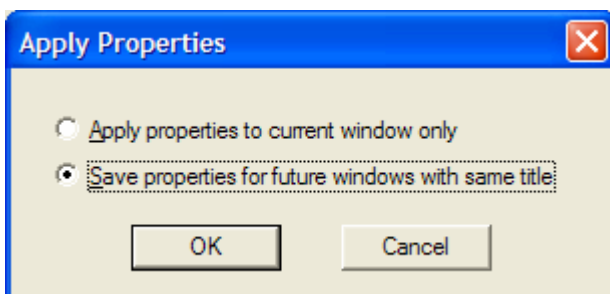
1. Right-Click the black C:\ icon shown in the upper left corner of the window
2. Select Properties.

The following window will pop up:



3. Go to the “Options” tab
4. Check “Quick Edit Mode” under the “Edit Options” section.
5. Press OK

The following window will pop up:



6. Make your selection as you choose. I chose to “Save properties for future windows with the same title”
7. Press OK

HOW TO SELECT THE TEXT AND PASTE INTO NOTEPAD

1. In the DOS Command Window, hold the left mouse button down at the start of the text you want to select and drag the cursor to the end of the text that you want to select. All selected text will appear in a white box.
2. Remove your finger from the mouse. Note that the white box of selected text remains in the DOS Command Window.
3. Without pressing any of the mouse buttons, move the cursor to the end of the text that you want to select.
4. Now, with the cursor located at the position in Step 3, right-click the mouse. Notice that the white box disappears. No need to worry, the text has been copied. Now you need to paste it.
5. Open up Notepad or Word
6. Go to the Notepad or Word document and click on a newly opened document so that your mouse cursor is in the file window.
7. Type <CTRL-v> to paste in the screen dump. Note, the CTRL key and the v keys are pressed at the same time.
8. Save your Notepad or Word file (if you wish to save your output)
9. Print your Notepad or Word file (for submission with your assignment)