

Work within VC++ 6.0 IDE

Software Techniques Lab 1

Created on Jan. 11, 2005, by Tim Ji

Lab 1 Specific Information

Objective:

This tutorial guides you through the process of creating a simple console application using Visual C++ 6.0. After this lab, students should feel comfortable to create console applications for the all the labs and assignments in this class.

Requirement:

1. Follow the tutorial to create the sample console application.
2. Create two more console applications. You may search for the source code on the textbook or Internet, or you may write your own code.
3. Demonstrate your work in lab, answer questions, and submit your lab report on the following week.

Marks: 3 of your final 100 marks

General Lab Information

Lab report format:

Your lab report should consist of at least the following sections:

- Course name, lab number
- Student name, ID, lab section
- Project name, purpose, description
- Well commented and indented source code
- Result of execution of your program
- Observations, discussions, lessons, etc.

Lab report must be printed. Hand written report is not acceptable.

Due date:

You have one week to finish this lab. It is due in the following week's lab.

Absence due to sickness:

Doctor's note must be provided, and your lab mark will be distributed to other labs. You will receive zero mark otherwise. There will NOT be make-up labs.

Lab marks:

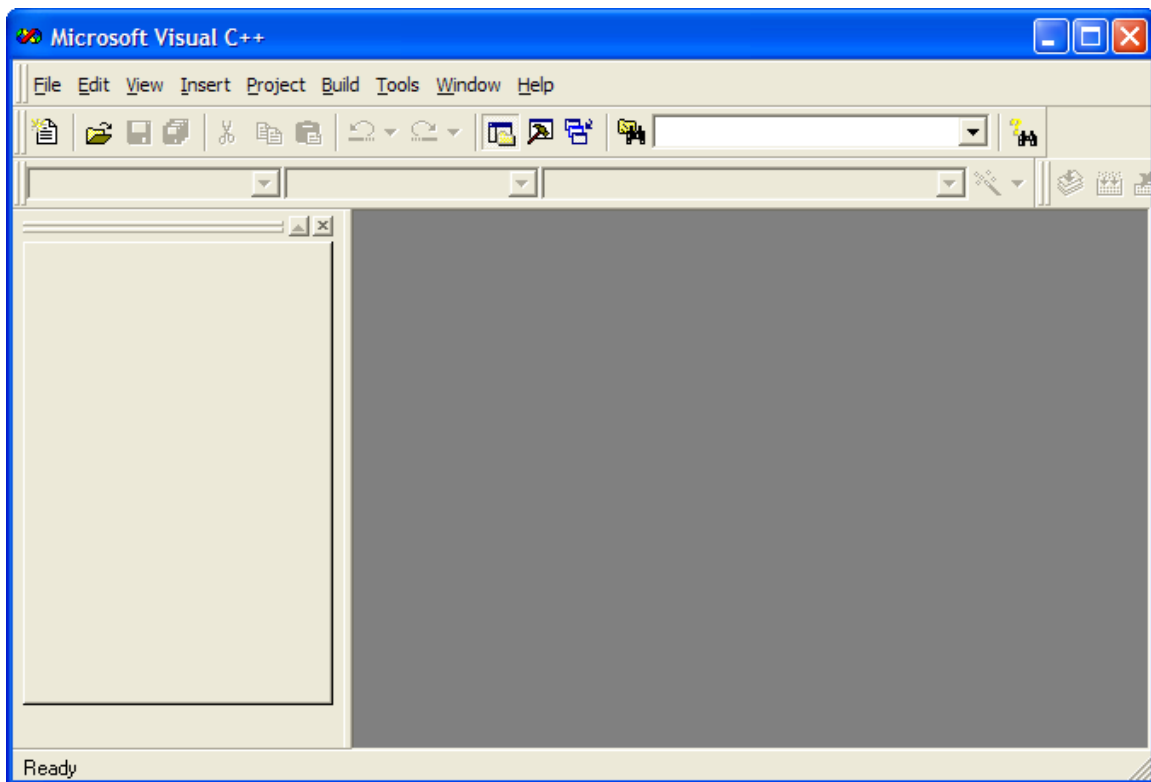
Lab marks will be posted on the course webpage beside student ID.

VC++ 6.0 IDE Tutorial

Step 1: Creating a New Project

Using Windows Explorer create a folder to hold all of your projects for this class. In this example I have named mine G:\sw_tech\labs. You can name your folder anything you like. Once you have created your folder, close Windows Explorer.

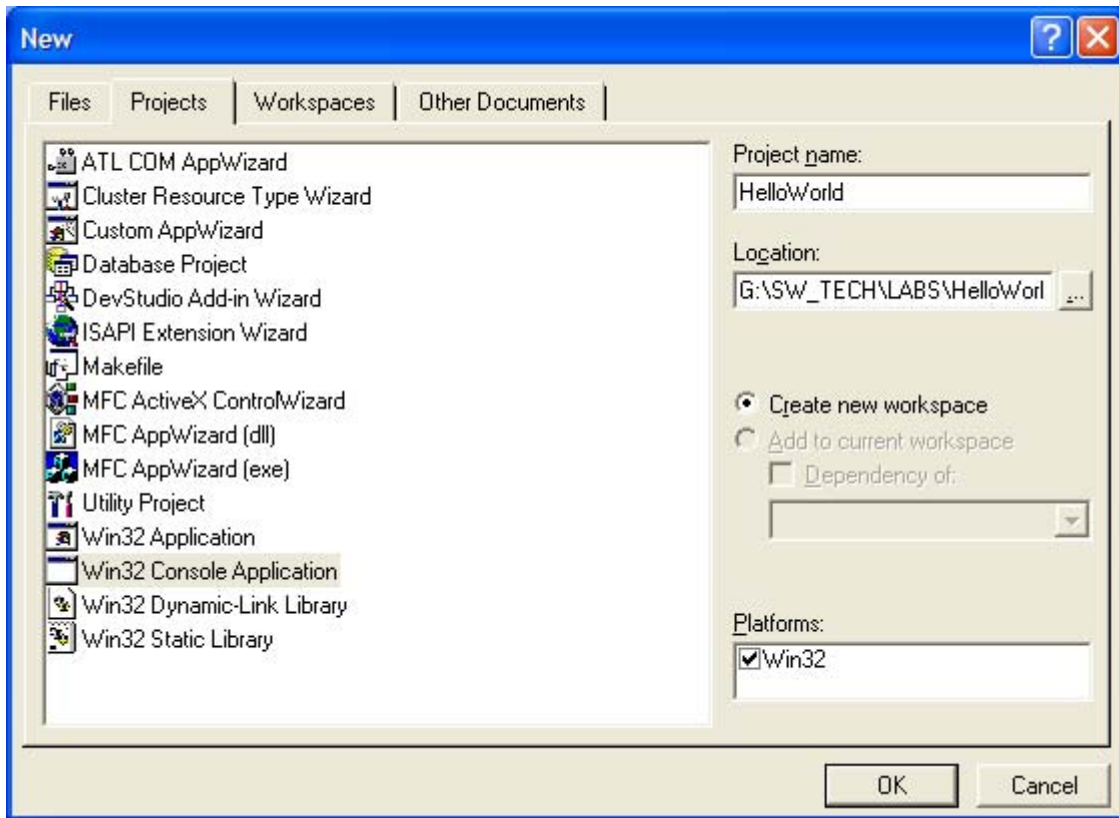
Start Microsoft Visual C++ using the Start button from Windows. You should see a screen similar to the the following image:



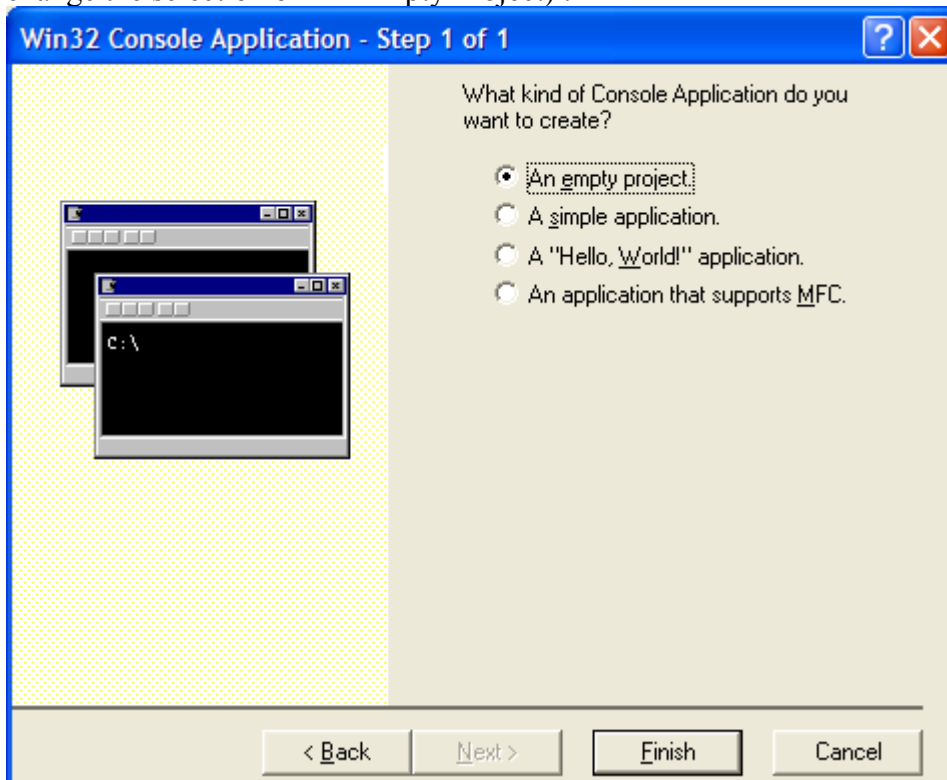
Click the menu item File|New... or press CTRL-N

A dialog box is displayed. Select Win32 Console Application on the left. Then, next to the Location: text box, click on the button to browse to the folder you created in the last step. Finally, in the Project name: text box, enter HelloWorld.

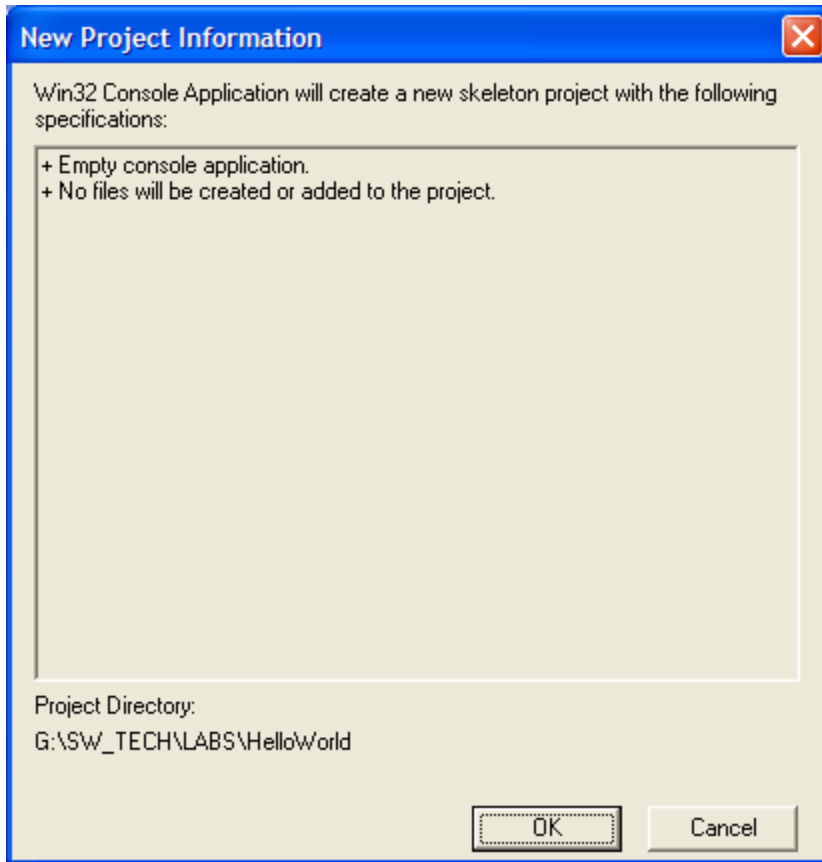
Leave all other default settings unchanged. The screen should look like this:



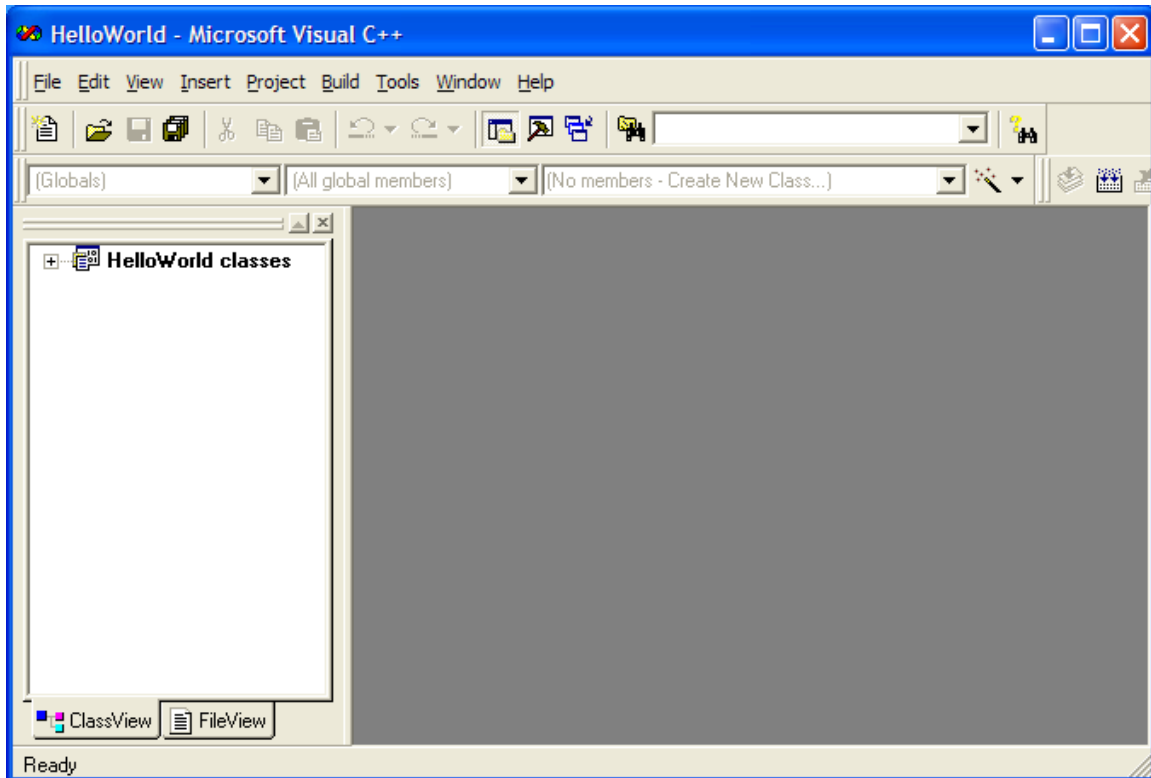
Click the OK button to continue. You should see the following screen (Note: don't change the selection on An Empty Project) :



Click the Finish button to create your new project. You should see the following screen displaying information about your project:

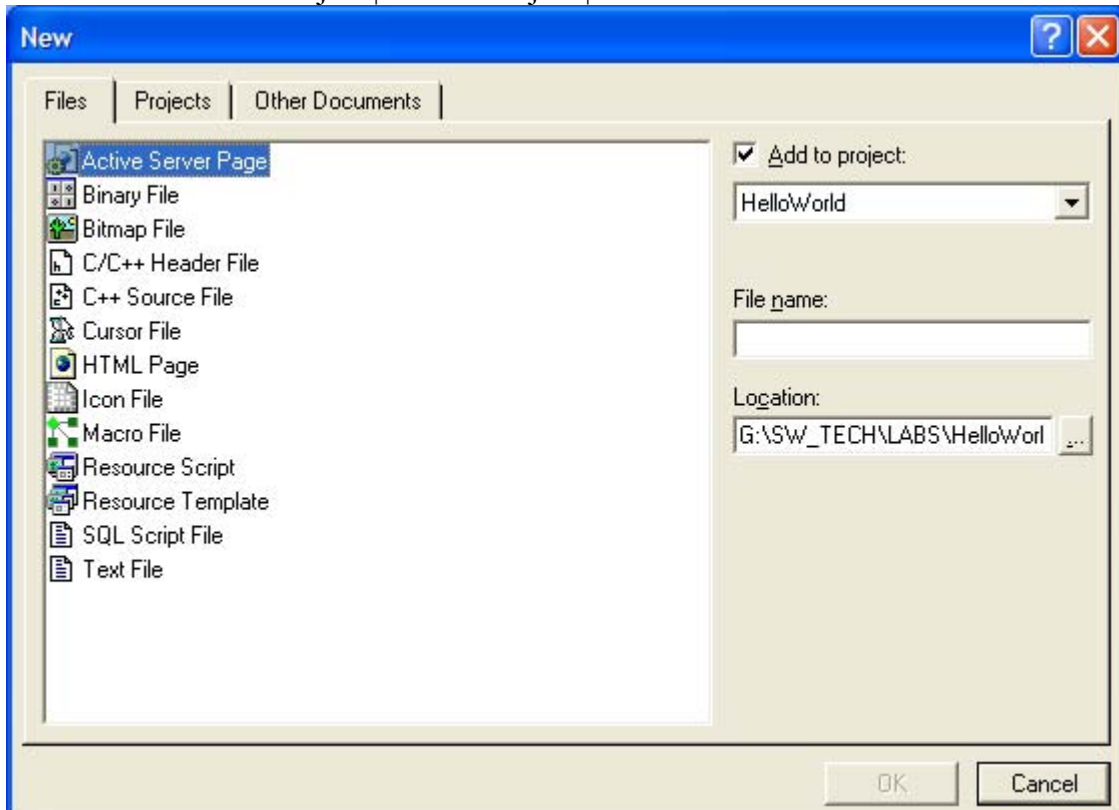


Click the OK button to continue. You should see the following screen:

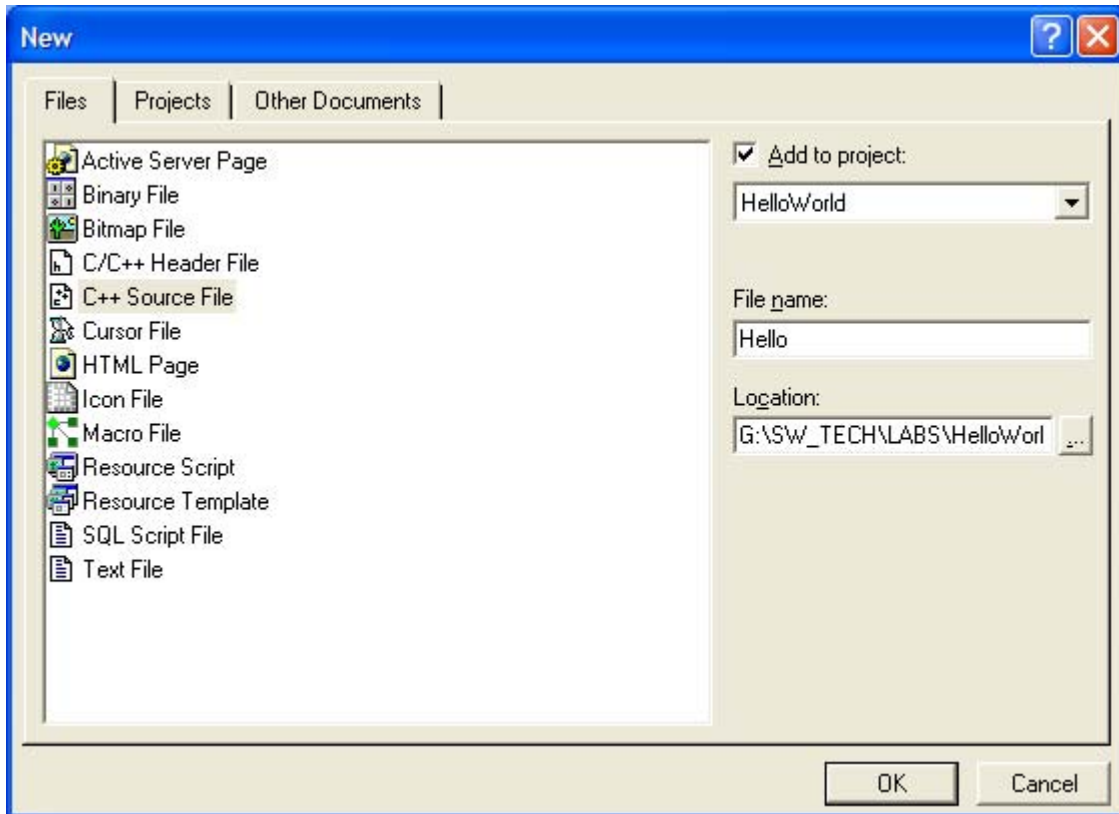


Step 2: Typing Your Program Code

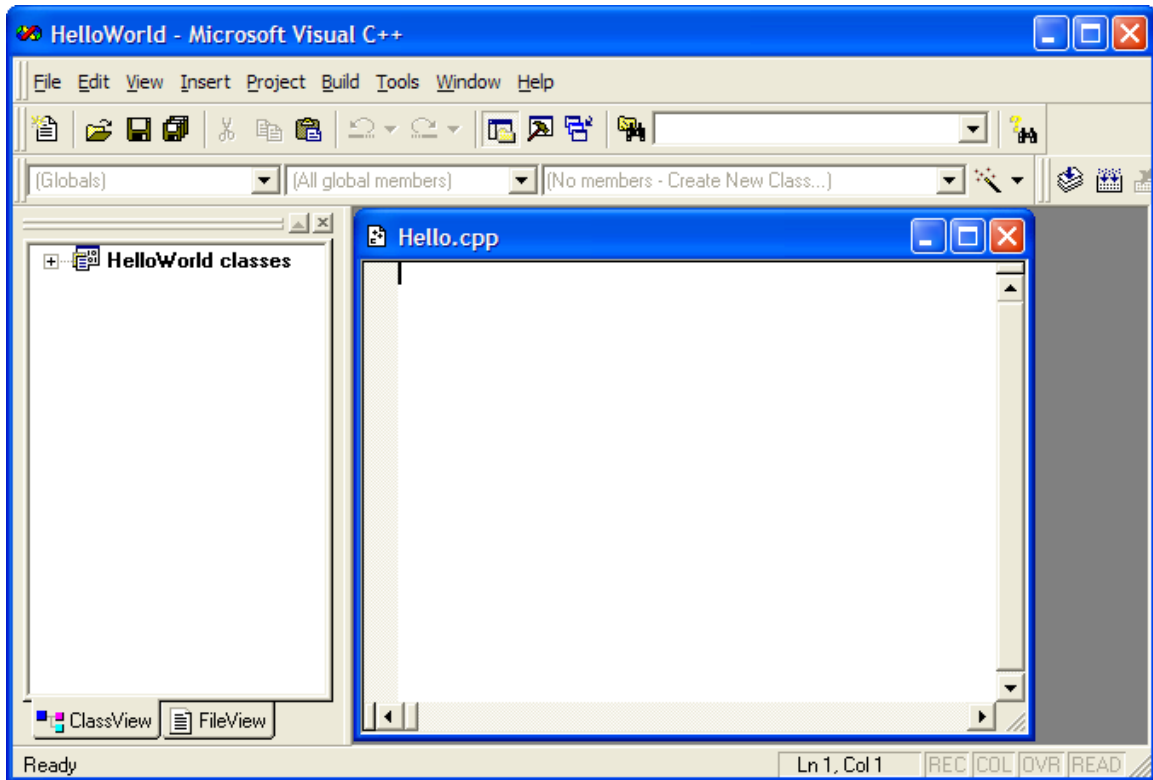
Click the menu item Project | Add To Project | New...



Select C++ Source File from the list on the left and type the name Hello in the text box labeled File Name:



Click the OK button to enter the edit mode. You should see the following screen:



Enter the following program:

```
#include <stdio.h>

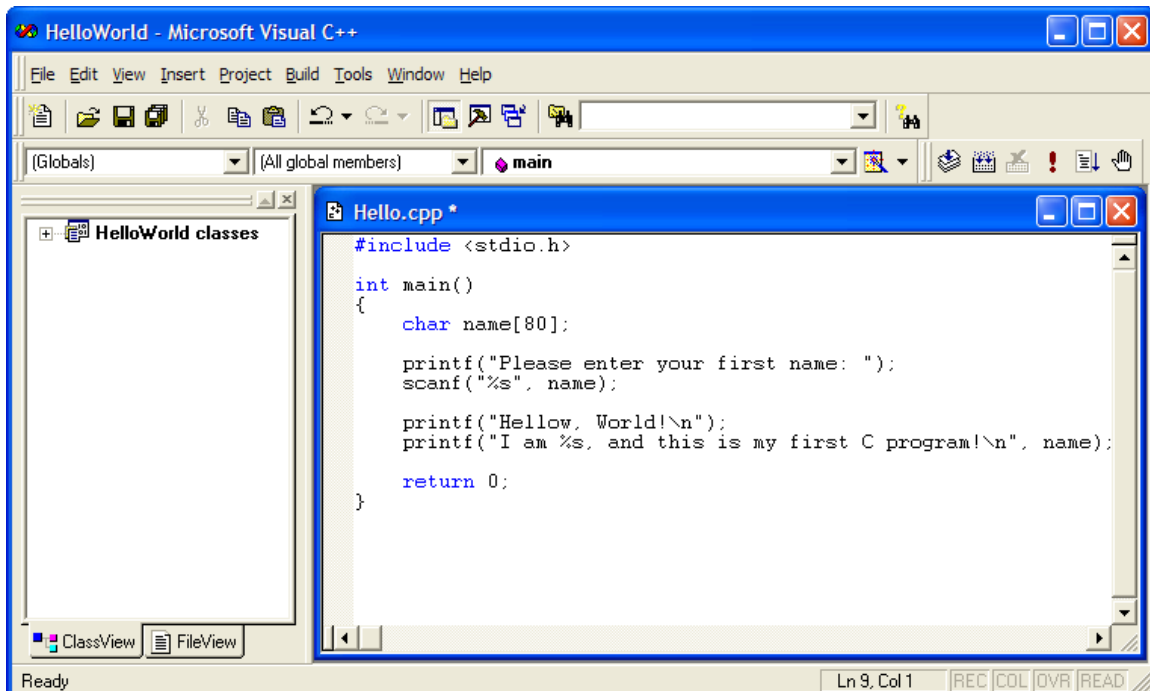
int main()
{
    char name[80];

    printf("Please enter your first name: ");
    scanf("%s", name);

    printf("Hello, World!");
    printf("I am %s, and this is my first C program!\n", name);

    return 0;
}
```

Once you have typed the program in the edit window, your screen should look like this:

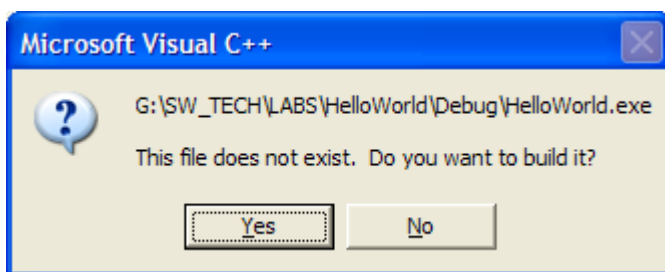


Save your program by clicking on the icon that looks like a floppy disk (3rd icon from the left).

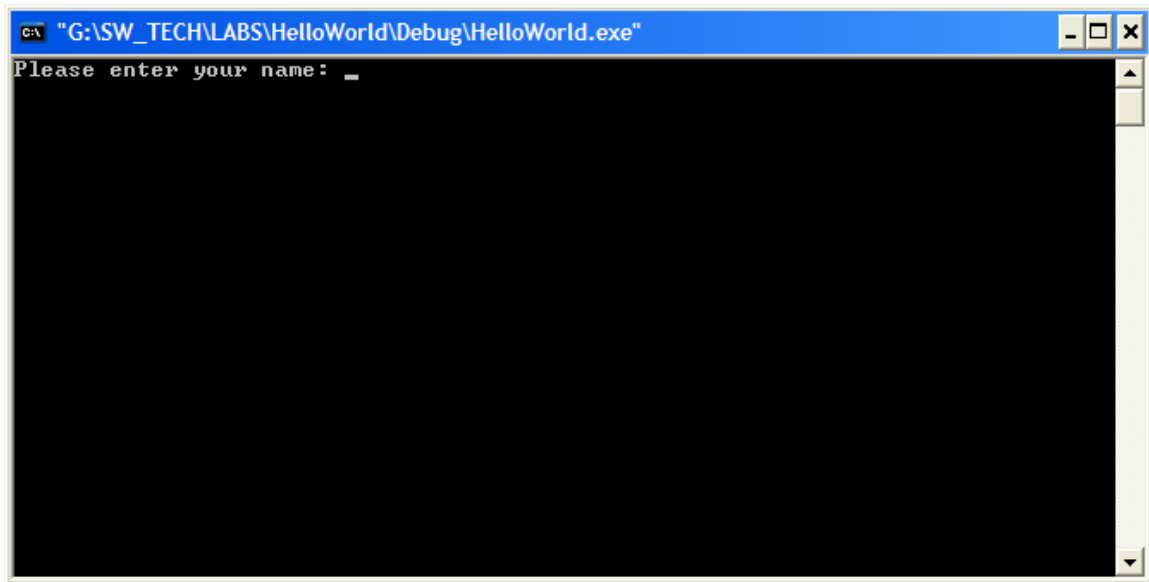
Step 3: Compiling and Executing Your Program

If you have entered your code without any typos, you should be able to compile and run your program now. To execute your program click on the button toward the right that is labeled **!**

The following message box will appear:

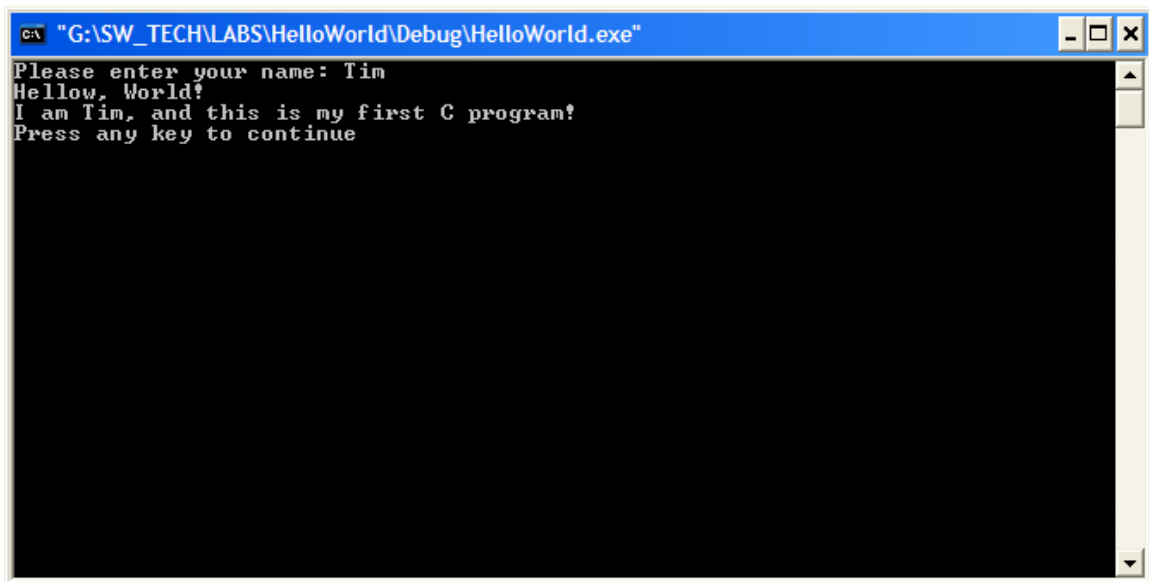


Click the Yes button and your program will compile and execute. You should eventually see the following screen:



```
C:\ "G:\SW_TECH\LABS\HelloWorld\Debug\HelloWorld.exe"
Please enter your name: _
```

Type your name when prompted and then press Enter. You should see the following screen:



```
C:\ "G:\SW_TECH\LABS\HelloWorld\Debug\HelloWorld.exe"
Please enter your name: Tim
Hello, World!
I am Tim, and this is my first C program!
Press any key to continue
```

Once you recover from the awe of creating your first C++ program you can press any key to make the console window disappear.

That's it! You've created your first C++ project.