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## How to write ANSI C programs by using Visual C++ .NET or Visual C++ 2005

### SUMMARY

**Note** Microsoft Visual C++ .NET 2002 and Microsoft Visual C++ .NET 2003 support both the managed code model that is provided by the Microsoft .NET Framework and the unmanaged native Microsoft Windows code model. The information in this article applies only to unmanaged Visual C++ code. Microsoft Visual C++ 2005 supports both the managed code model that is provided by the Microsoft .NET Framework and the unmanaged native Microsoft Windows code model.

This step-by-step article describes how to write American National Standards Institute (ANSI) C programs by using Microsoft Visual Studio .NET. This article discusses how to write a simple "Hello World!" C program by using Visual C++ application wizards in the Visual Studio .NET or Visual Studio 2005 IDE.

### MORE INFORMATION

The best way to create new projects is by using the Visual C++ application wizards. Visual C++ application wizards work with the application frameworks and libraries to create starter programs for you.

To create ANSI C programs by using the Visual C++ application wizards in the Visual Studio .NET or Visual Studio 2005 IDE, follow these steps:

1. Start Microsoft Visual Studio .NET or Microsoft Visual Studio 2005.
2. On the **File** menu, point to **New**, and then click **Project**.
3. Under **Project Types**, click **Visual C++ Projects**.

**Note** In Visual Studio 2005, click **Visual C++** under **Project Types**.

4. Under **Templates**, click **Win32 Project**.
5. In the **Name** text box, type **FirstApplication**.
6. In the **Location** text box, type **C:\Test**, and then click **OK**.

The **Win32 Application Wizard - FirstApplication** dialog box appears.

7. In the **Win32 Application Wizard** dialog box, click **Application Settings** in the left pane.
8. Under **Application Type**, click to select any of the following options:
  - **Console application**: Creates a simple console application. The application files include a .cpp file that contains an empty **main** function.
  - **Windows application**: Creates a simple Microsoft Windows-based application. The application files include a *ProjectName*.cpp file that contains a **\_tWinMain** function. You can use this type of application to perform graphical user interface (GUI) based programming.
  - **DLL**: Creates a 32-bit Windows-based DLL application project.
  - **Static library**: Creates a 32-bit Windows-based DLL application project.

To create a simple "Hello World!" program, click to select **Console application**.

9. Under **Additional options**, click to select the **Empty project** check box.

**Note** To create a simple "Hello World!" program, do not select this check box. Instead, let the wizard generate the code for you.

10. Click **Finish**.
11. In Solution Explorer, right-click the **Source Files** folder, point to **Add**, and then click **Add New Item**.
12. In **Add New Item - FirstApplication** dialog box, click **C++ File (.cpp)** under **Templates**.
13. In the **Name** text box, type **Test.c**, and then click **Open**.
14. In the **Test.c** code window, paste the following code:

**#include** is a preprocessor directive that tells the compiler to put code from the stdio.h header file into your program. If you include header files, you can gain access to standard library functions. For example, your application must have access to the stdio.h header file to use the **printf** function.

15. On the **Build** menu, click **Build Solution**.
16. Press CTRL+F5 to run the application. You receive the following message in a Command Prompt window:

```
Hello World
Press any key to continue
```

## REFERENCES

For additional information about the C1010 compiler error, click the following article number to view the article in the Microsoft Knowledge Base:

[815644](http://support.microsoft.com/kb/815644/) (<http://support.microsoft.com/kb/815644/>) INFO: Most Common Causes of C1010 Error

For more information, visit the following Microsoft Developer Network (MSDN) Web sites:

<http://msdn2.microsoft.com/en-us/library/ms682589.aspx> (<http://msdn2.microsoft.com/en-us/library/ms682589.aspx>)

[http://msdn2.microsoft.com/en-us/library/ms235627\(VS.80\).aspx](http://msdn2.microsoft.com/en-us/library/ms235627(VS.80).aspx) ([http://msdn2.microsoft.com/en-us/library/ms235627\(VS.80\).aspx](http://msdn2.microsoft.com/en-us/library/ms235627(VS.80).aspx))

## APPLIES TO

- Microsoft Visual C++ 2005 Express Edition
- Microsoft Visual C++ .NET 2003 Standard Edition
- Microsoft Visual C++ .NET 2002 Standard Edition

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