How to Create a Program in C Sharp

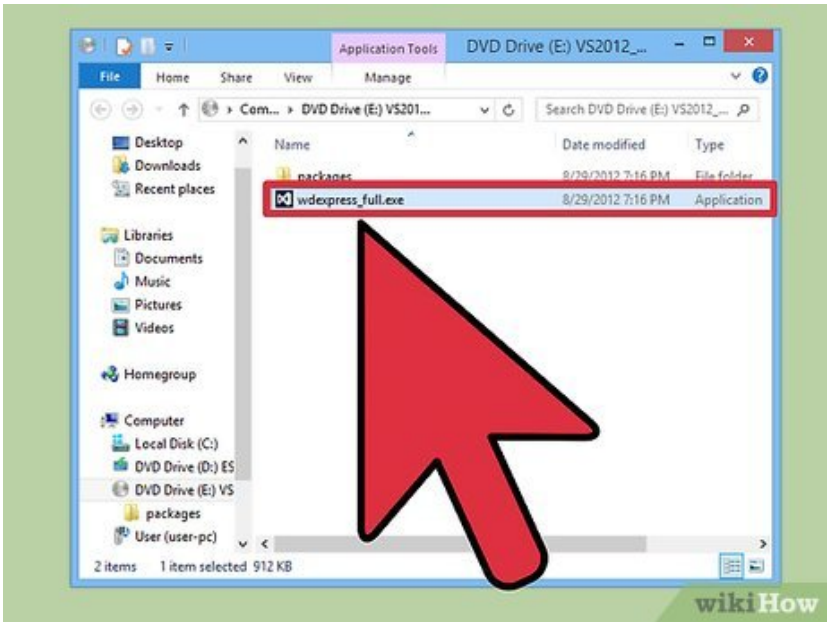
C# is a great programming language, and all the tools you need to get started are free and easy to use. While C# is usually associated with Microsoft and closed source, free software supporters just use DotGNU that delivers more or less...

Part 1 of 3:

Seting Up (Windows)

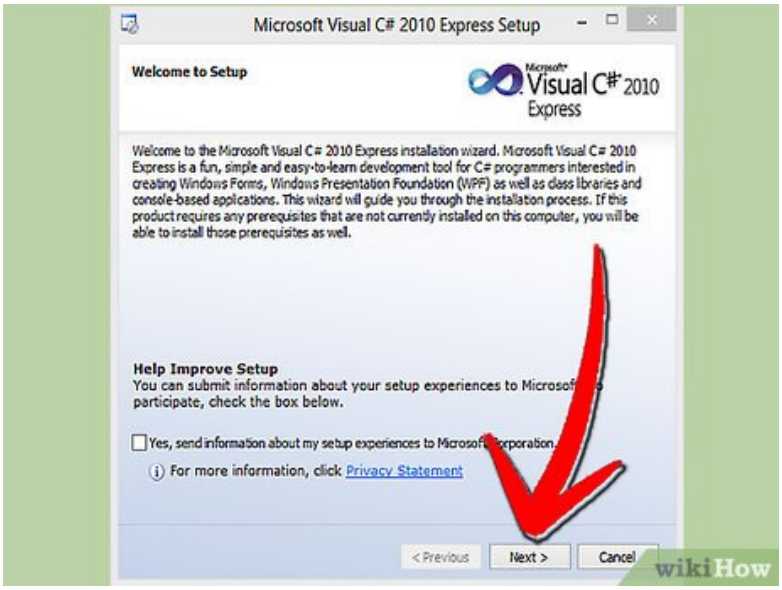
1. 

Go here to download your free copy of Visual C# Community Edition.

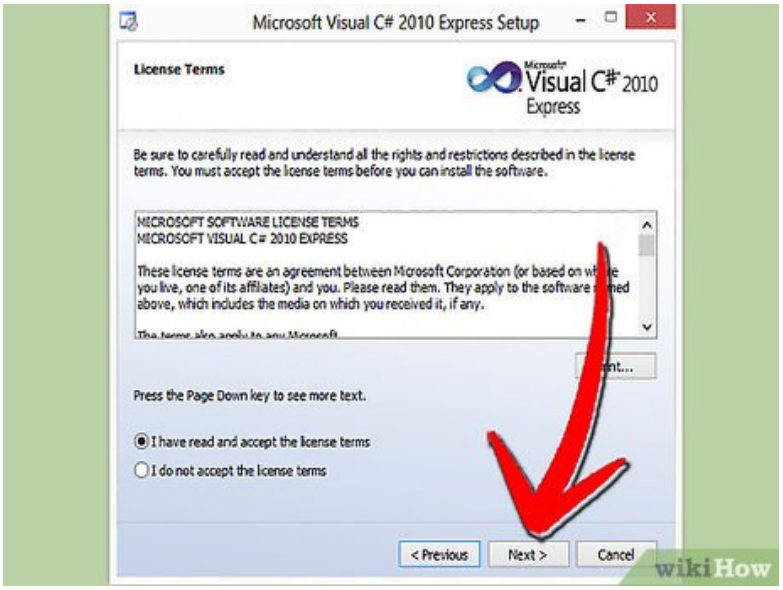
2. 

Run the downloaded executable and follow these steps:

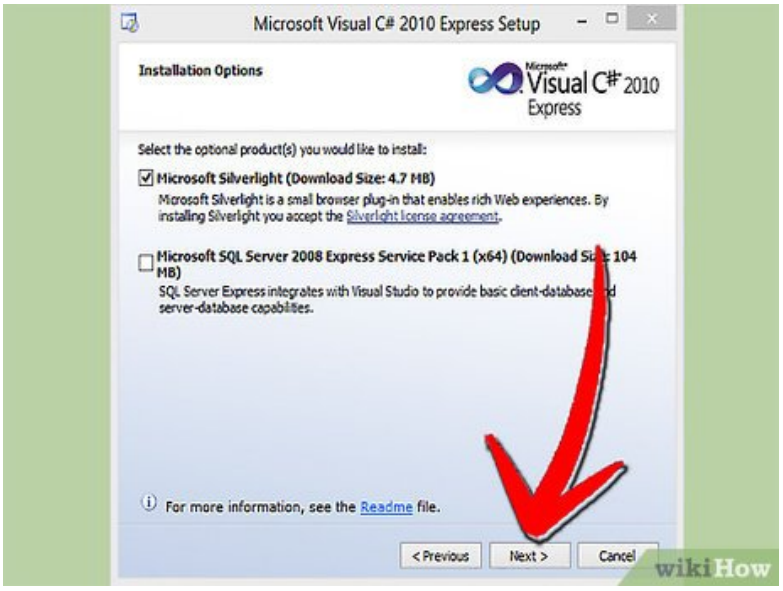
1. Next.



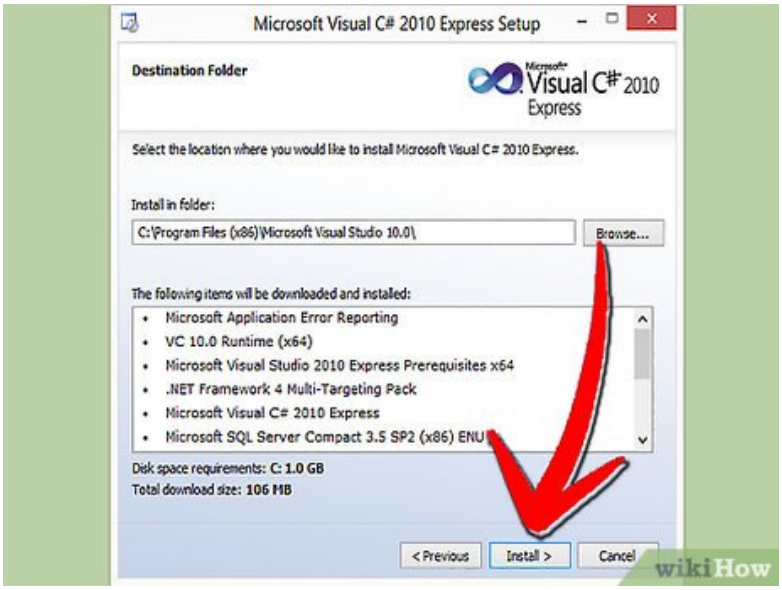
2. I agree ? Next.



3. Select MSDN, not SQL ? Next.

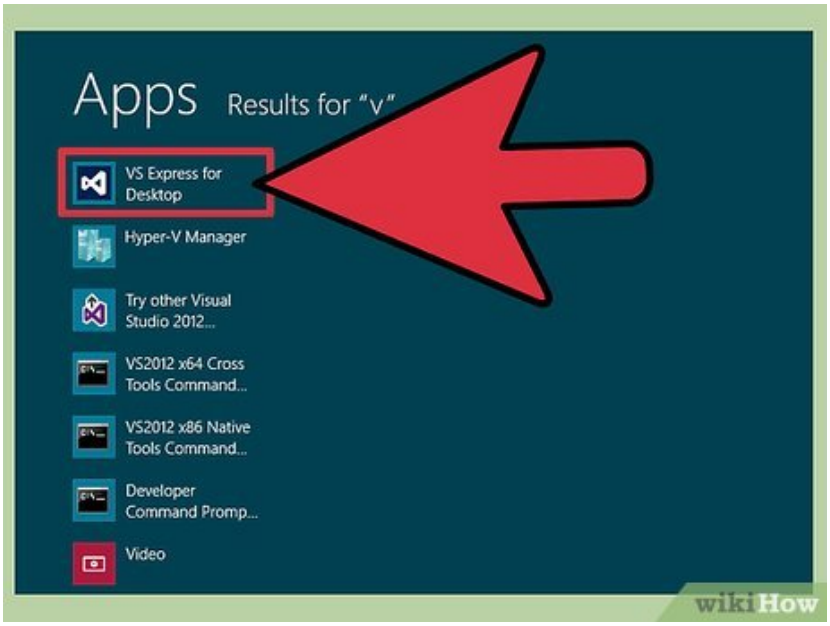


4. Install.

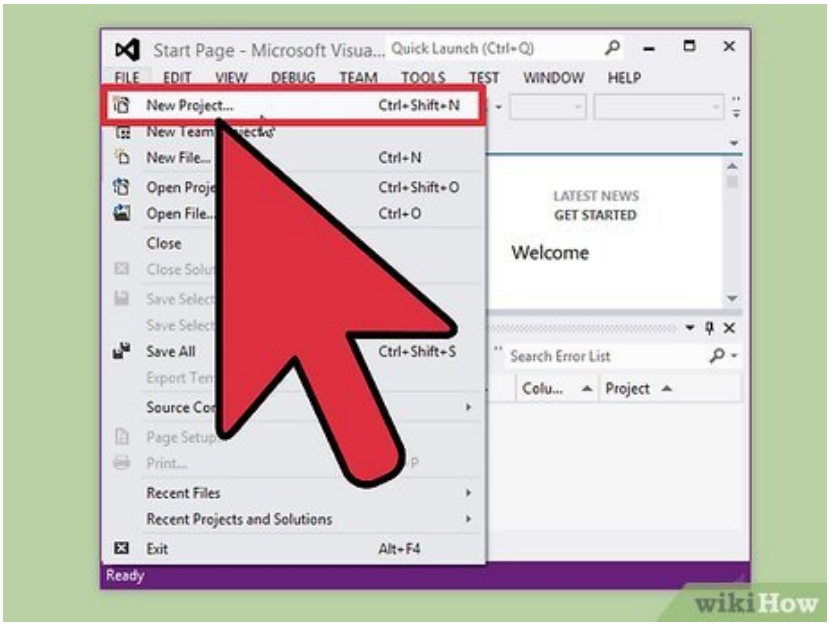


Part 2 of 3:

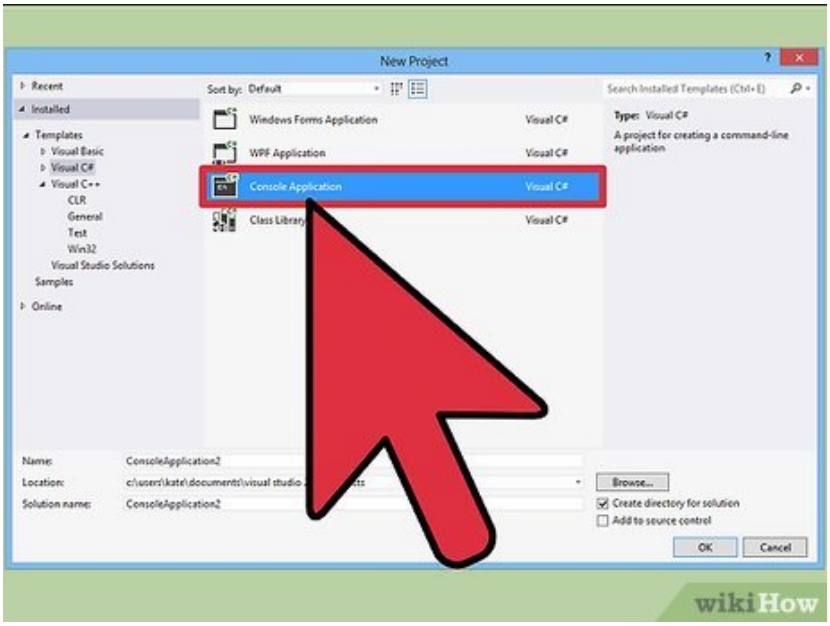
Creating Your First Program

1. 

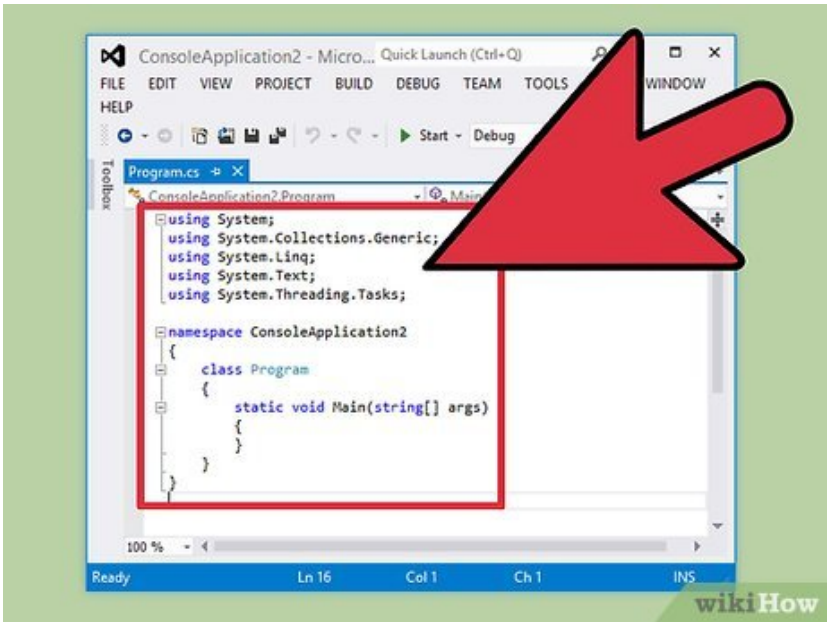
Run Visual C# Community Edition.

2. 

Go to File ? New ? Project.

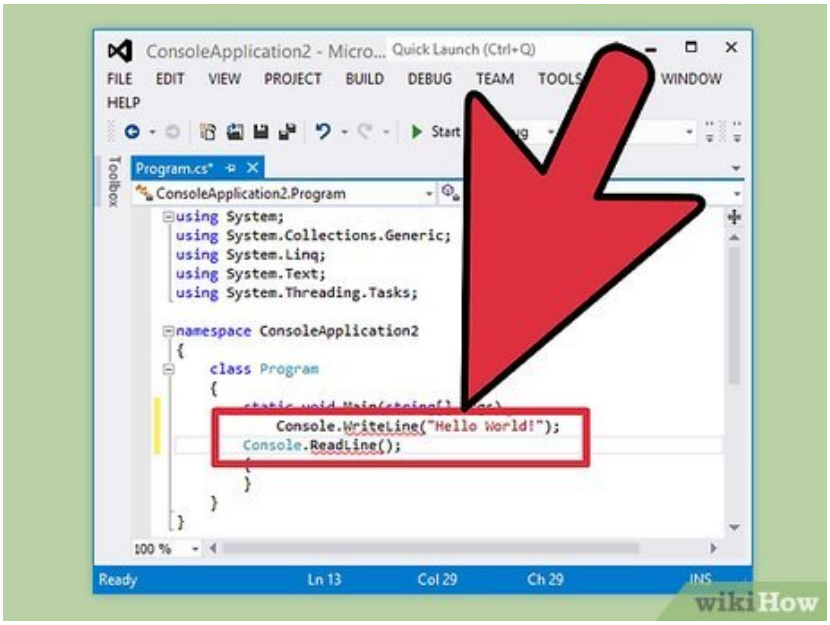
3. 

Select Visual C# ? Windows ? Console Application.

4. 

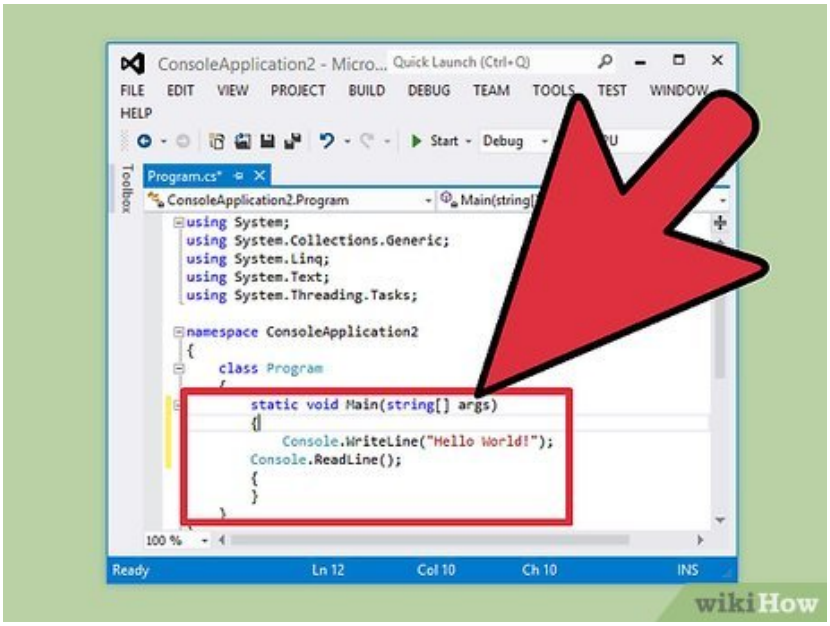
Press OK. You should see this:

```
using System; using System.Collections.Generic; using System.Text;
namespace ConsoleApplication1 { class Program { static void Main(string
[] args) { } } }
```

5. 

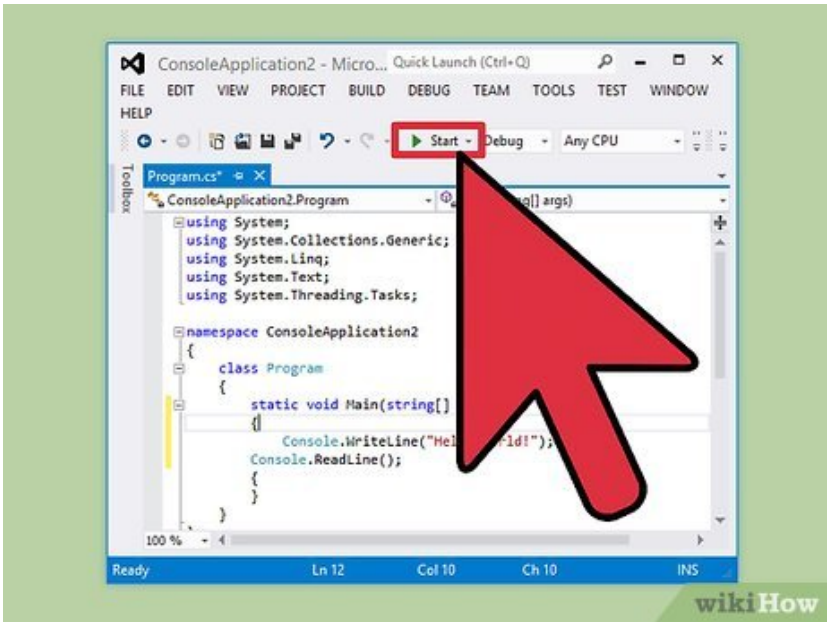
Beneath `static void Main(string[] args)`, after the first curly brace, type:

```
Console.WriteLine("Hello, World!"); Console.ReadLine();
```

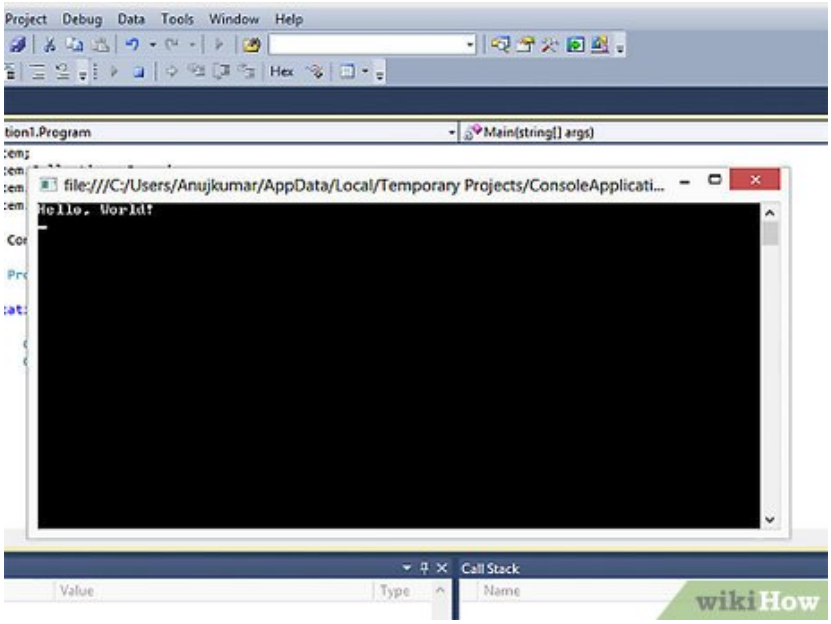
6. 

Make sure it looks like this:

```
using System; using System.Collections.Generic; using System.Text;
namespace ConsoleApplication1 { class Program { static void Main(string
[] args) { Console.WriteLine("Hello, World!"); Console.ReadLine(); } }
}
```

7. 

Click the Run [?] button on the toolbar. This will build the program and run the program. Congratulations!

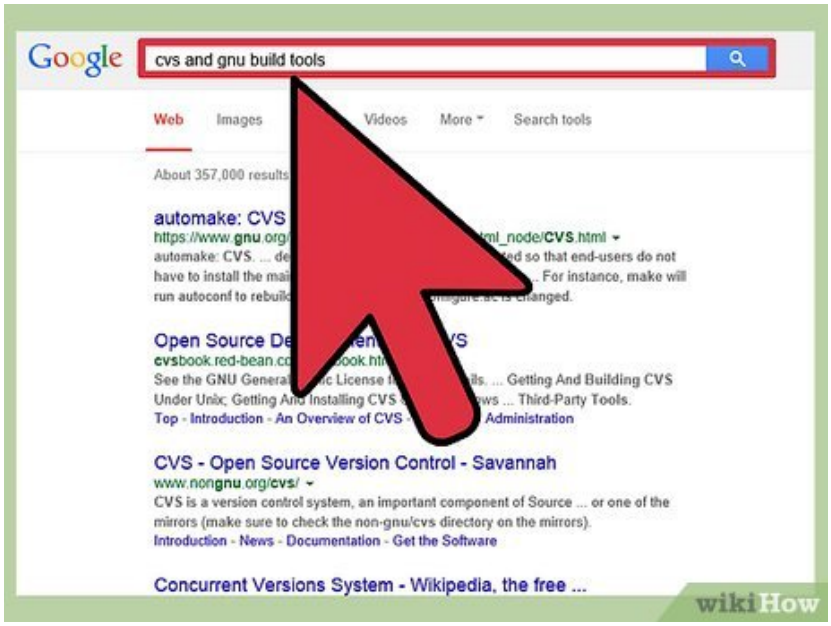
8. 

View the result. This should have produced a console window, reading Hello World!

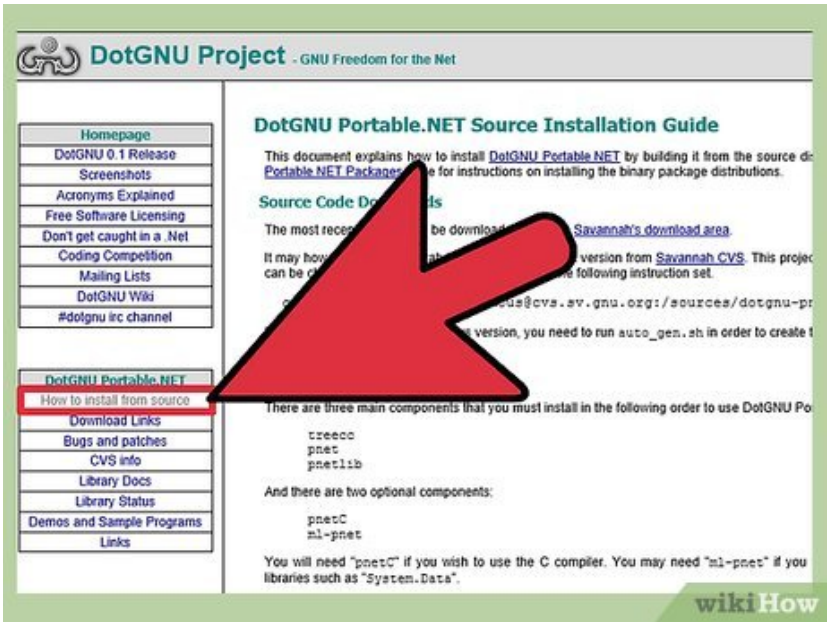
1. If it did not, then you did something incorrectly.

Part 3 of 3:

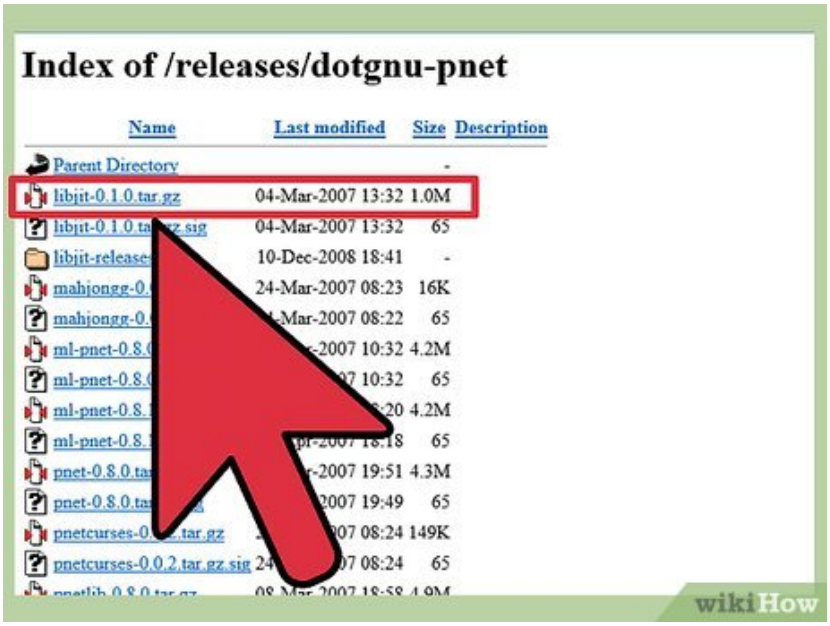
Setting Up (Free Software)

1. 

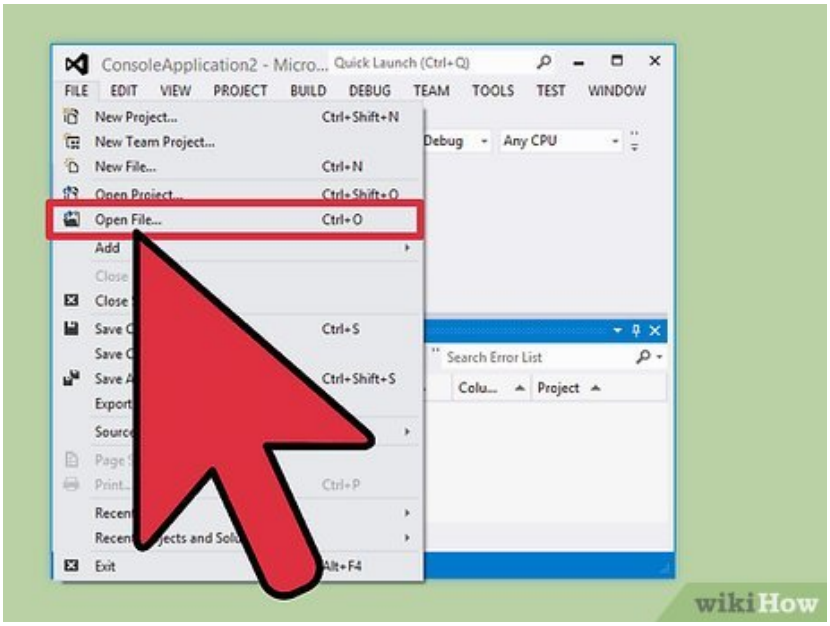
Download CVS and GNU build tools. This should be included into the majority of Linux distributions.

2. 

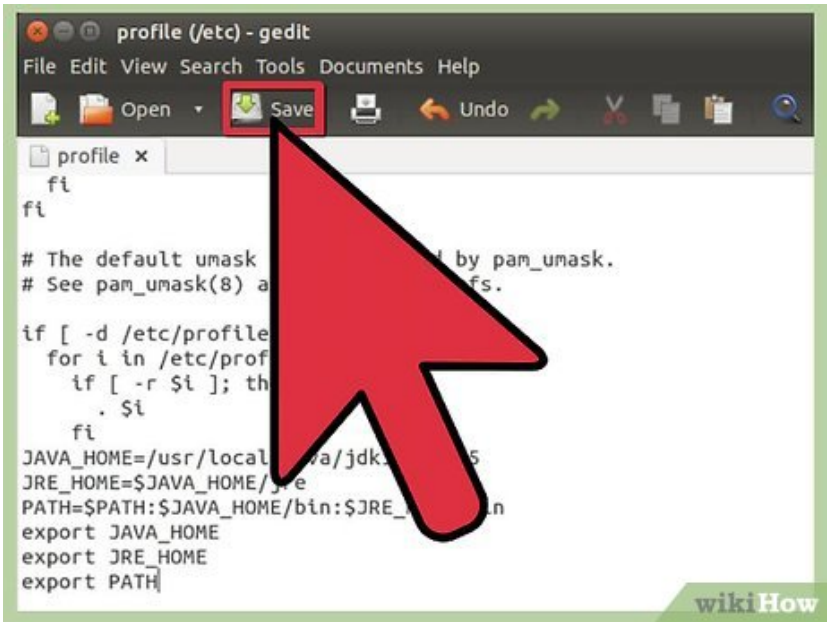
Go to the DotGNU project (http://www.gnu.org/software/dotgnu/) that provides FOSS implementation of C#. Read the chapter about the installation. These instructions are simple to follow even for beginners.

3. 

Decide if you want to get the source code and build you C# environment from scratch or you may try pre-compiled distributions first. The project is relatively easy to build from the source so we suggest to try this way first.

4. 

Try to start some examples that also come in precompiled (.exe) form. For instance, FormsTest.exe will show large collection of various GUI controls. The folder *pnetlib/samples* contains the script ilrun.sh that can launch precompiled executables, for instance *sh ./ilrun.sh forms/FormsTest.exe* (from inside that folder).

5. 

Use *KWrite* or *gedit* to edit the C# code - the recent versions of both editors support the syntax highlight for this language.

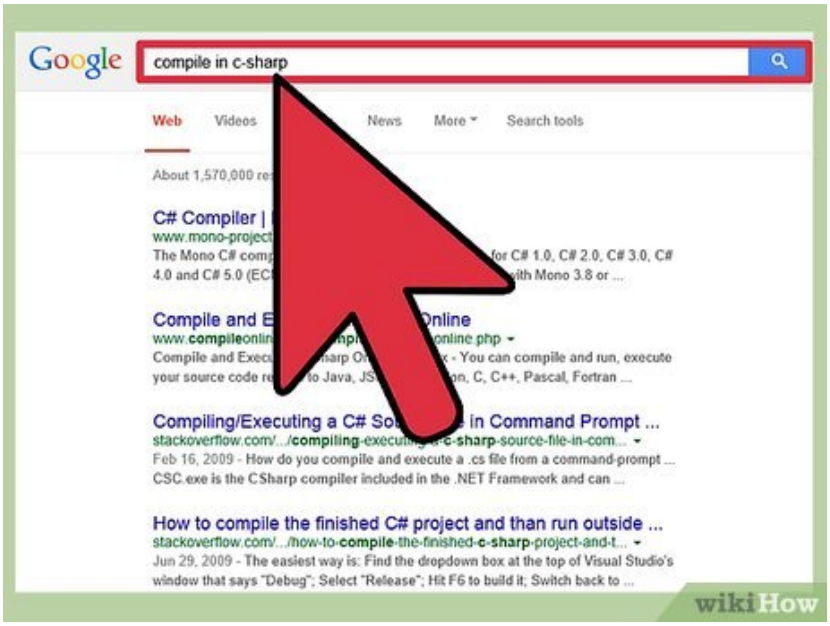
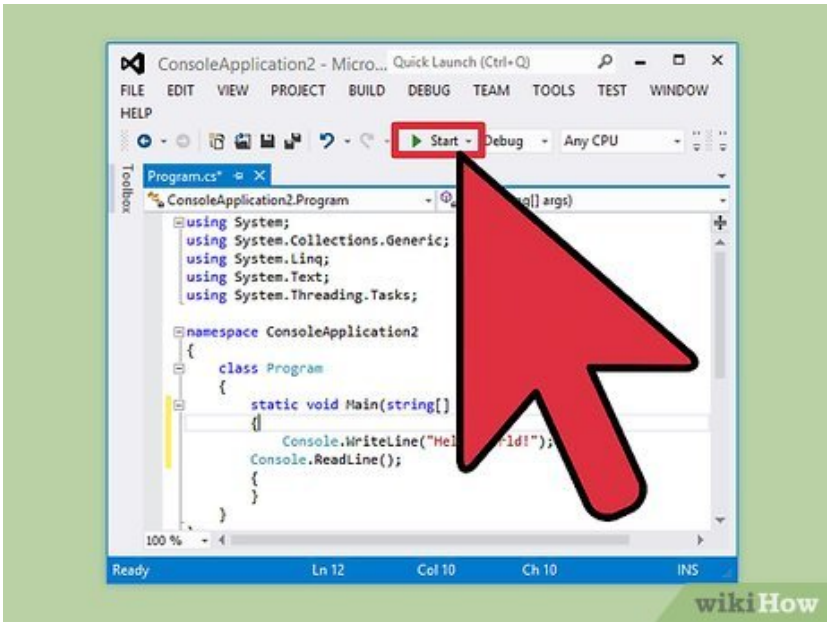
6. 

Figure out yourself how to compile the short example, given in the "Windows way" section. If the project web site does not provided enough documentation, try web search. If this does not help, post questions to the project mailing lists.

7. 

Congratulations, you are both C# - aware and not bound to any single C# provider!

You finished reading the article "**How to Create a Program in C Sharp**" edited by the **TipsMake** team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.