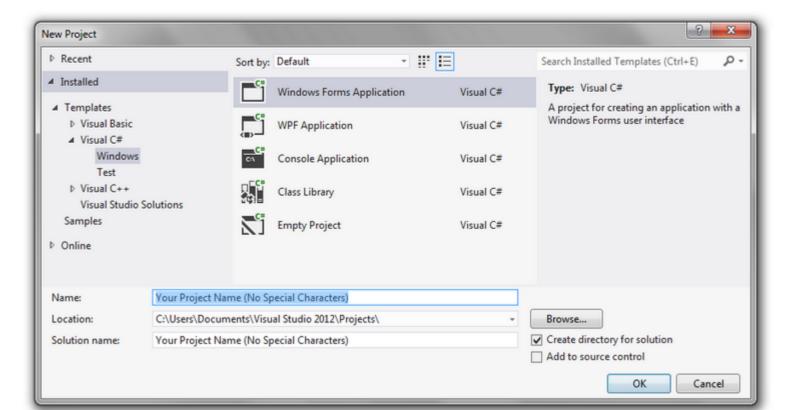
An application consists of several related files. In C#, these files are collectively maintained as a project.

Select New Project from the File menu or click The New Project dialog box is displayed:



- Select the Windows Forms Application template in Visual C#.
- In the Name box, replace the existing text with a project name starting with your last name, then a descriptive application name

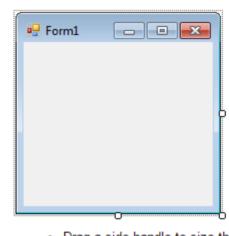
Example "Johnson – Guessing Game" or "Johnson – Project 4"

Do not use an apostrophe ' in your project name, it will cause an error when you try to run it ***

A C# application includes many files including a project file (.csproj) and a solution file (.sln).

THE WINDOWS FORM

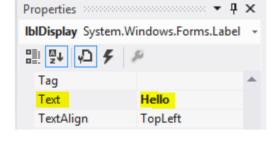
- A form is a graphical object that contains a title bar, a system menu, and Minimize, Maximize, and Close buttons.
- A new C# Windows application automatically includes one Form object. To change the size of the Form object, click the form to select it.
- A selected object displays handles that appear as squares:



- Drag a side handle to size the height or width. Drag a corner handle to size both height and width together.
- · A Form object has properties that define its appearance, behavior, position, and other attributes. For example, the Text property of a form defines what is displayed in its title bar. Property values are displayed in the Properties window.
- · Properties may be listed in alphabetical order or they may be grouped by category. The Alphabetical and Categorized buttons in the Properties window can be used to switch the list.

SETTING A PROPERTY

. A property value is set by typing or selecting a new value. For example, selecting the form, clicking the Text property in the Properties window, and then typing Message displays the following:



Pressing Enter or clicking outside the Properties window applies the new Text property value to the form:



SAVING, OPENING AND RUNNING PROJECTS

An application should be saved frequently to avoid losing changes.

SAVING

- To save a project, select File > Save All or click the Save All button Ensure the "Create Directory for solution" box is checked, then click the Save button.
- OPENING

Create directory for solution

RUNNING

To run an application, click the Start Debugging button on the toolbar, select Debug > Start Debugging or press <F5>.

- . The IDE remains on the screen while the application runs. An application can be run at any time during the development process to allow for testing at different stages.
- STOPPING

browse to the project folder and open the ".csproj" or the ".sln" file.

 To terminate a running application, click the Stop Debugging button on the toolbar, select Debug > Stop Debugging. <SHIFT + F5> or click the Close button in the upper-right corner of the window.

PROJECT FILES

- When you build your program a whole bunch of files get made. If you open the directory default directory is C:\users\<yourname>\ Documents\Visual Studio\ProjectName You will see a .sIn file. This is a Visual Studio Solution file and it stores information about other file locations. (you can open it with
- notepad and read it) Next you should see a folder with your project name, inside there are a few more folders and two files, Program.cs.
- Program.cs is your main source code file you can actually open that with notepad as well and you will see your code. Then you have ProjectName.csproj this is a C# Project File it stores information about where others files are located it is
- actually an XML file you can also open this with notepad.
- Then there is a folder called My Project and inside this is a file called AssemblyInfo.cs, this stores information about the program such as company, author, product name, copyright, trademark, description etc. guess what? You can open this
- with notepad as well.
 - You also have obj and bin folders. Inside bin is another folder called debug and this is where your program will output.