Chapter 01, 02.

Visual Studio 2008

C#
1. Visual Studio 2008

- **Install Visual Studio 2008**
  Install Visual Studio 2008 features and required components.

- **Install Product Documentation**
  Install the MSDN Library, which includes Help for Visual Studio.

- **Check for Service Releases**
  Check for the latest Service Releases to ensure optimal functionality of Visual Studio 2008.
Welcome to the Microsoft Visual Studio 2008 Installation wizard.

This wizard guides you through installing this program and all required components.

Help Improve Setup
You can submit anonymous information about your Visual Studio setup experiences to Microsoft. To participate, check the box below.

☐ Yes, send information about my setup experiences to Microsoft Corporation.

For more information, click Data Collection Policy

Loading completed. Click Next to continue.
Please exit all applications before continuing with the installation.

Setup has detected that the following required components are already installed:
- Microsoft Windows Installer 3.1

Setup will install the following components:
- Microsoft .NET Framework 3.5
- Microsoft Document Explorer 2008
- Microsoft Visual Studio Web Authoring Component
- Microsoft Visual Studio 2008

To install, you must accept the End User License Agreement and enter your product key.

Be sure to carefully read and understand all the rights and restrictions described in the license terms. You must accept the license terms before you can install the software.

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT VISUAL STUDIO 2008 PROFESSIONAL EDITION AND TRIAL EDITION

These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which it is distributed (if any) and any copies of the software you make.

Press the Page Down key to see more text.

I have read and accept the license terms.
I do not accept the license terms.

Product key:

Name:

User
Select features to install:

- Default
  Installs the recommended features for the product

- Custom
  Select features to include and exclude from the product

Feature description:
This option installs all of the features available for the product.

Product install path:
C:\Program Files\Microsoft Visual Studio 9.0

Disk space requirements:

<table>
<thead>
<tr>
<th>Volume</th>
<th>Disk Size</th>
<th>Available</th>
<th>Required</th>
<th>Remaining</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>48.8 GB</td>
<td>24.4 GB</td>
<td>4.1 GB</td>
<td>20.3 GB</td>
</tr>
<tr>
<td>D</td>
<td>63.0 GB</td>
<td>34.8 GB</td>
<td>274 MB</td>
<td>34.5 GB</td>
</tr>
</tbody>
</table>

Buttons:
- Previous
- Install
- Cancel
Success
Visual Studio Setup is complete.

Visual Studio 2008 has been installed.

Documentation:

To install MSDN Library for Visual Studio 2008, run setup.exe in the MSDN folder on the installation media, or download MSDN Library Express Edition.

Security Notes:

It is **highly recommended** that you update this computer with the latest security patches for your operating system. See the Windows Update web site, [http://windowsupdate.microsoft.com](http://windowsupdate.microsoft.com), for the latest updates. You can also get updates for Windows XP, Windows Server 2003 and Vista.

- It is also recommended that you choose to opt in to the Microsoft Update service to make sure you receive all the available updates for this and other Microsoft products. You can do so by visiting this site: [http://update.microsoft.com/microsoftupdate](http://update.microsoft.com/microsoftupdate).
2. .NET Framework

.NET Framework?

- Microsoft

.NET Framework windows

.NET Framework C# , C++, Visual Basic, J script, COBOL

- .NET Managed C++, Visual Basic .NET, J script .NET
C# [1/2]

C#  is ?

C# is followed by C++, Java, and Python among others.

C# C++, C++, Java, Python, .
C# [2/2]

C#  

①  
②  
③  
④  
⑤  

C#  (Garbage Collector)

- Microsoft Visual Studio 2008
- Microsoft Windows SDK v6.0A
- Visual Studio Remote Tools
- Visual Studio Tools
- Microsoft Visual Studio 2008 Documentation

- New
- Open
- Close
- Project...
- Web Site...
- File...
- Project From Existing Code...
3. [Diagram of a window for creating a new project in Visual Studio, indicating selection of the 'Windows Forms Application' template under the 'Visual C#\Windows' section. The project name 'WindowsFormsApplication1' is selected, and the location is set to a specific directory. The .NET Framework 3.5 is selected.]
3. Windows Forms

( Form1.cs )
3. Windows Forms

(Progam.cs)
3. [Image of software interface]

(Output) (View -> Output) Build(F6) .
3. 

(Debug - > Start Without Debugging : Ctrl+F5)
Visual Studio 2008
4. C#

- C# program
- C# file path
- C# compilation
- C# execution

1.
```csharp
<ENTER>
c:\WCsharpPRJ\Hello.cs
using System;
class HelloWorld
{
    public static void Main(string[] args)
    {
        Console.WriteLine("Hello World!");
    }
}
```

2.
```bash
<ENTER>
c:\WCsharpPRJ\Hello.cs
C:\WCsharpPRJ\> csc Hello.cs
```

3.
```bash
<ENTER>
C:\WCsharpPRJ\> Hello
Hello World!
```

C#

Using Statement namespace

Class

Main()

(Entry Point)

Prolog

using System;

class Hello
{
    public static void Main(string[] args)
    {
        Console.WriteLine("Hello, World!");
    }
}

- C# [additional content]
- [additional content]
- C# [additional content]

Main():
- M
- public static void .

using statement:
- using .
- using .
- using .
- Console.WriteLine using System .


- **Write/WriteLine**
  -  
  - **WriteLine**
  - **Write/WriteLine**

- **Read/ReadLine**
  -  
  - **Read**
  - **ReadLine**

- (Comment)
  - `//` □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ ^{