



An Introduction to Visual Basic 2005

- Why Windows and Why Visual Basic
- How You Develop a Visual Basic Application
- The Different Versions of Visual Basic



Programmer and User

- Programmer – the person who solves the problem and writes the instructions for the computer
- User – any person who uses the program written by the programmer



Problem Solving

- Developing the solution to a problem
- Algorithm – a step by step series of instructions to solve a problem



Computers and Complicated Tasks

- Tasks are broken down into instructions that can be expressed by a computer language
- A program is a sequence of instructions
- Programs can be only a few instructions or millions of lines of instructions



All Programs Have in Common:

- Take data and manipulate it to produce a result
- Input – Process – Output
 - Input – from files, the keyboard, or other input device
 - Output – to the monitor, printer, file, or other output device



Communicating with the Computer

- Machine language – low level, hard for humans to understand
- Visual Basic – high level, understood by humans, consists of instructions such as Click, If, Do



How to Develop a Visual Basic Application

- Design the Interface for the user.
- Determine which events the controls on the window should recognize.
- Write the event procedures for those events.



Sample Input Screen

A screenshot of a Windows-style dialog box titled "Create Database". The dialog box has a standard title bar with minimize, maximize, and close buttons. It contains several text input fields for user data. The fields are labeled "Name", "Address", "City", "State", "Zip code", and "Phone". The "State" and "Zip code" fields are placed side-by-side. At the bottom of the dialog, there are two buttons: "Write to Database" and "Exit".

Name	Mr. President				
Address	1600 Pennsylvania Avenue				
City	Washington				
State	DC	Zip code	20500		
Phone	202-456-1414				

Write to Database Exit



Visual Basic 2005

- Language used to create Windows applications.
- Provides a Graphical User Interface or GUI.
- The sequence of instructions executed in the program is controlled by events.



Visual Basic 2005

- BASIC originally developed at Dartmouth in the early 1960s
- Visual Basic created by Microsoft in 1991
- Visual Basic 2005 is similar to original Visual Basic, but more powerful



Different Versions of Visual Basic

- Version 1.0 – 1991
- Version 2.0 – 1992
- Version 3.0 – 1993
- Version 4.0 – 1995
- Version 5.0 – 1997
- Version 6.0 – 1998
- Visual Basic.NET – 2002
- Visual Basic.NET – 2003
- **Visual Basic 2005**



Visual Studio 2005

- Visual Studio Team System
- Visual Studio Tools For Office
- Visual Studio Professional Edition
- Visual Studio Standard Edition
- **Visual Studio Express Edition**
 - **Free**, easy-to-use and easy-to-learn tools for the novice and **student developer**
- Comparison of the products
 - <http://msdn.microsoft.com/vstudio/products/comparison/default.aspx>



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