

# 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

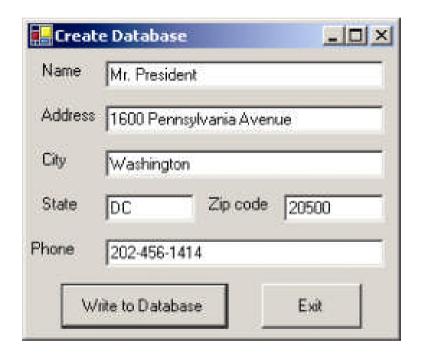


# How to Develop a Visual Basic Application

- 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





#### 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/compar e/default.aspx



### Download VB Express

- Installation CDROM
  - ISO image <u>http://msdn.microsoft.com/vstudio/express/s</u> <u>upport/install/default.aspx</u>
- Installation over the Internet
  - http://msdn.microsoft.com/vstudio/express/v b/download/default.aspx