

Chapter 8

Debugging Visual Basic Programs

After completing this chapter, you will be able to:

- Identify different types of errors in your programs.
- Use Visual Studio debugging tools to set breakpoints and correct mistakes.
- Use the Autos and Watch windows to examine variables during program execution.
- Use a visualizer to examine string data types and complex data types within the IDE.
- Use the Immediate and Command windows to change the value of variables and execute commands in Visual Studio.
- Remove breakpoints.

In the past few chapters, you've had plenty of opportunity to make programming mistakes in your code. Unlike human conversation, which usually works well despite occasional grammatical mistakes and mispronunciations, communication between a software developer and the Microsoft Visual Basic compiler is successful only when the precise rules and regulations of the Visual Basic programming language are followed.

In this chapter, you'll learn more about the software defects, or *bugs*, that stop Visual Basic programs from running. You'll learn about the different types of errors that turn up in programs and how to use the Microsoft Visual Studio debugging tools to detect and correct these defects. What you learn will be useful as you experiment with the programs in this book and when you write longer programs in the future.

Why focus on debugging now? Some programming books skip this topic altogether or place it near the end of the book (after you've learned all the language features of a particular product). There is a certain logic to postponing the discussion, but I think it makes the most sense to master debugging techniques while you learn to program so that detecting and correcting errors becomes part of your standard approach to writing programs and solving problems. At this point in this book, you know just enough about objects, decision structures, and statement syntax to create interesting programs—but also enough to get yourself into a little bit of trouble! As you'll soon see, however, Visual Studio 2010 makes it easy to uncover your mistakes and get back on the straight and narrow.

Finding and Correcting Errors

The defects you've encountered in your programs so far have probably been simple typing mistakes or syntax errors. But what if you discover a nastier problem in your program—one you can't find and correct by a simple review of the objects, properties, and statements

Debugging Basic Programs

John Robbins



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