

# [Visual basic.net (an abc approach) assignment](https://assignbuster.com/visual-basicnet-an-abc-approach-assignment/)

VB . NET Language in a Nutshell Steven Roman Ron Petrusha Paul Lomax Publisher: O’Reilly First Edition August 2001 ISBN: 0-596-00092-8, 654 pages Need to make sense of the many changes to Visual Basic for the new . NET platform? VB . NET Language in a Nutshell introduces the important aspects of the language and explains the . NET framework. An alphabetical reference covers the functions, statements, directives, objects, and object members that make up the VB . NET language. To ease the transition, each language element includes a “ VB . NET/VB 6 Differences” section. Preface……………………………………………………………………………………………………………….. 14 Why Another VB Book? ………………………………………………………………………………. 26 Who This Book Is For………………………………………………………………………………….. 26 Readers New to Visual Basic………………………………………………………………….. 26 VB and VBScript Developers New to VB . NET…………………………………….. 6 Existing VB . NET Developers …………………………………………………………………. 27 How This Book Is Structured …………………………………………………………………….. 27 The Format of the Language Reference ………………………………………………. 28 Conventions Used in This Book…………………………………………………………………. 29 How to Contact Us ………………………………………………………………………………………. 0 Acknowledgments ……………………………………………………………………………………….. 30 Part I: The Basics ……………………………………………………………………………………………….. 33 Chapter 1. Introduction ……………………………………………………………………………………….. 33 1. 1 Why VB . NET? ……………………………………………………………………………………….. 34 1. 2 What Is VB . NET? …………………………………………………………………………………. 7 1. 2. 1 Object Orientation…………………………………………………………………………. 37 1. 2. 2 A Common Type System ……………………………………………………………… 38 1. 2. 3 Access to System Services: The Framework Class Library …… 39 1. 2. 4 A Common Runtime Environment ……………………………………………… 41 1. 3 What Can You Do with VB . NET?……………………………………………………….. 42 Chapter 2. Variables and Data Types…………………………………………………………………. 3 2. 1 Variables ………………………………………………………………………………………………… 43 2. 1. 1 Variable Scope……………………………………………………………………………….. 43 2. 1. 2 Variable Lifetime ……………………………………………………………………………. 45 2. 2 Declaring Variables and Constants……………………………………………………. 47 2. 3 Data Types …………………………………………………………………………………………….. 8 2. 3. 1 Value and Reference Types …………………………………………………………. 49 2. 3. 2 VB Data Types: A Summary ……………………………………………………….. 51 2. 3. 3 Simple Data Types in Visual Basic……………………………………………… 54 2. 3. 4 Data Type Conversion ………………………………………………………………….. 62 2. 4 Arrays……………………………………………………………………………………………………… 64 2. 4. Definition of Array…………………………………………………………………………. 64 2. 4. 2 Dimension of an Array………………………………………………………………….. 64 2. 4. 3 Size of an Array …………………………………………………………………………….. 64 2. 4. 4 Arrays in VB . NET ………………………………………………………………………….. 65 2. 5 Object Variables and Their Binding …………………………………………………… 67 2. . 1 Late Binding Versus Early Binding……………………………………………… 68 2. 6 The Collection Object …………………………………………………………………………… 69 2. 7 Parameters and Arguments………………………………………………………………… 70 2. 7. 1 Passing Arguments ……………………………………………………………………….. 70 2. 7. 2 Passing Objects ……………………………………………………………………………… 71 2. 7. Optional Arguments………………………………………………………………………. 73 2. 7. 4 ParamArray …………………………………………………………………………………….. 73 Chapter 3. Introduction to Object-Oriented Programming …………………………………… 75 3. 1 Why Learn Object-Oriented Techniques? ………………………………………… 75 2 3. 2 Principles of Object-Oriented Programming …………………………………….. 75 3. 2. 1 Abstraction ……………………………………………………………………………………… 5 3. 2. 2 Encapsulation …………………………………………………………………………………. 76 3. 2. 3 Interfaces ………………………………………………………………………………………… 77 3. 3 Classes and Objects……………………………………………………………………………… 79 3. 3. 1 Class Modules in VB . NET …………………………………………………………….. 79 3. 3. 2 Class Members ……………………………………………………………………………….. 79 3. 3. 3 The Public Interface of a VB .

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