

PROGRAMMING IN VB .NET

PROGRAMMING IN VB .NET

(Exclusive Guide for Curious Learners)

By

V. CHRISTY

*St. Xavier's Polytechnic College
Seydunganallur, Tuticorin Dist.
Tamil Nadu*



UNIVERSITY SCIENCE PRESS

(An Imprint of Laxmi Publications Pvt. Ltd.)

BANGALORE • CHENNAI • COCHIN • GUWAHATI • HYDERABAD
JALANDHAR • KOLKATA • LUCKNOW • MUMBAI • RANCHI • B9K '89 @ =
INDIA ***** USA • GHANA • KENYA

PROGRAMMING IN VB .NET

Copyright © by Laxmi Publications (P) Ltd.

All rights reserved including those of translation into other languages. In accordance with the Copyright (Amendment) Act, 2012, no part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise. Any such act or scanning, uploading, and or electronic sharing of any part of this book without the permission of the publisher constitutes unlawful piracy and theft of the copyright holder's intellectual property. If you would like to use material from the book (other than for review purposes), prior written permission must be obtained from the publishers.

Printed and bound in India
Typeset at Kalyani Computer Services
First Edition: 2015
UPV-9610-250-PROGRAMMING IN VB .NET-CHR
ISBN 978-93-80856-94-0

Price: ₹ 250.00

Limits of Liability/Disclaimer of Warranty: The publisher and the author make no representation or warranties with respect to the accuracy or completeness of the contents of this work and specifically disclaim all warranties. The advice, strategies, and activities contained herein may not be suitable for every situation. In performing activities adult supervision must be sought. Likewise, common sense and care are essential to the conduct of any and all activities, whether described in this book or otherwise. Neither the publisher nor the author shall be liable or assumes any responsibility for any injuries or damages arising herefrom. The fact that an organization or Website if referred to in this work as a citation and/or a potential source of further information does not mean that the author or the publisher endorses the information the organization or Website may provide or recommendations it may make. Further, readers must be aware that the Internet Websites listed in this work may have changed or disappeared between when this work was written and when it is read.

All trademarks, logos or any other mark such as Vibgyor, USP, Amanda, Golden Bells, Firewall Media, Mercury, Trinity, Laxmi appearing in this work are trademarks and intellectual property owned by or licensed to Laxmi Publications, its subsidiaries or affiliates. Notwithstanding this disclaimer, all other names and marks mentioned in this work are the trade names, trademarks or service marks of their respective owners.

PUBLISHED IN INDIA BY



UNIVERSITY SCIENCE PRESS

(An Imprint of Laxmi Publications Pvt. Ltd.)

113, GOLDEN HOUSE, DARYAGANJ,
NEW DELHI - 110002, INDIA
Telephone : 91-11-4353 2500, 4353 2501
Fax : 91-11-2325 2572, 4353 2528

www.laxmipublications.com info@laxmipublications.com

Branches	☎	Bangalore	080-26 75 69 30	
	☎	Chennai	044-24 34 47 26,	24 35 95 07
	☎	Cochin	0484-237 70 04,	405 13 03
	☎	Guwahati	0361-254 36 69,	251 38 81
	☎	Hyderabad	040-27 55 53 83,	27 55 53 93
	☎	Jalandhar	0181-222 12 72	
	☎	Kolkata	033-22 27 43 84	
	☎	Lucknow	0522-220 99 16	
	☎	Mumbai	022-24 91 54 15,	24 92 78 69
	☎	Ranchi	0651-220 44 64	

C—

Printed at:

*Dedicated to the
Lord Jesus Christ*

CONTENTS

Pages

PART I : .NET FRAMEWORK

1.	.NET FRAMEWORK OVERVIEW	....	3-7
1.1	.NET Framework	....	3
1.2	.NET Framework Architecture	....	4
1.3	Namespaces	....	6

PART II : CONSOLE APPLICATION

2.	INTRODUCTION TO VB .NET	....	11-25
2.1	Visual Basic .NET	....	11
2.2	Programming Essentials	....	18
2.3	Boxing and Unboxing	....	24
3.	CONTROL STRUCTURES	....	26-33
3.1	If Statement	....	26
3.2	Else if Statement	....	28
3.3	Select Case	....	30
4.	LOOP STRUCTURES	....	34-41
4.1	While Statement	....	34
4.2	Do While Statement	....	36
4.3	Do Until Statement	....	39
4.4	For Statement	....	41

5.	ARRAYS AND STRUCTURES	....	42–50
5.1	One Dimensional Array Elements	....	42
5.2	Two Dimensional Array	....	44
5.3	Structures	....	45
6.	FUNCTIONS AND PROCEDURES	....	51–62
6.1	Functions	....	51
6.2	Sub Procedure	....	58
7.	OOP CONCEPTS	....	63–73
7.1	Class and Object	....	63
7.2	Constructor	....	65
7.3	Inheritance	....	68
8.	EXCEPTION HANDLING	....	74–78
8.1	Exception Handling	....	74

PART III : WINDOWS APPLICATION

9.	TEXTBOX, BUTTON, LABEL AND LINKLABEL	....	85–94
9.1	Label, Button and LinkLabel	....	85
9.2	TextBox	....	88
10.	LISTBOX, SCROLL BARS, CHECKBOX AND RADIO BUTTON	....	95–107
10.1	The ListBox Control	....	95
10.2	Scroll Bar	....	100
10.3	Check Box and Radio Button	....	106
11.	PICTURE BOX, TIMER, MENU STRIP	....	108–119
11.1	Picture Box	....	108
11.2	Timer Control	....	112
11.3	Menustrip	....	114
11.4	ComboBox	....	117

12.	RICHTEXTBOOK, DIALOG CONTROLS AND MDI	.... 120–130
12.1	The RichTextBox Control	.... 120
12.2	MDI–Multiple Document Interface	.... 127
13.	MONTH CALENDAR, DATE TIME PICKER, CHECKED LIST BOX	.... 131–139
13.1	Date Time Picker	.... 131
13.2	Month Calendar	.... 132
13.3	Checked List Box	.... 136
14.	PROGRESS BAR, TAB CONTROL AND DRIVELIST BOX, DIRLIST BOX, FILELIST BOX	.... 140–151
14.1	Progress Bar	.... 140
14.2	TabControl	.... 142
14.3	DriveList Box, DirList Box, FileList Box	.... 148
15.	TRACK BAR, TREE VIEW, NUMERIC UP DOWN CONTROL, MASKED TEXTBOX AND TOOLTIP	.... 152–168
15.1	Track Bar	.... 152
15.2	NumericUpDown Control	.... 153
15.3	TreeView	.... 156
15.4	Tool Tip	.... 161
15.5	Masked TextBox	.... 164
16.	IMAGE LIST, LIST VIEW, PROPERTY GRID AND TOOLSTRIP	.... 169–191
16.1	Image List	.... 169
16.2	List View	.... 171
16.3	Property Grid	.... 177
16.4	Tool Strip	.... 180
17.	STATUS STRIP, SPLITTER, ERRORPROVIDER, CONTEXT MENU STRIP	.... 192–202
17.1	Status Strip	.... 192
17.2	Splitter	.... 196
17.3	Error Provider	.... 198
17.4	Context Menu Strip	.... 201

(x)

18.	DIALOG CONTROLS IN PRINT OPERATION	.... 203–211
18.1	Print Dialogs	.... 203
19.	DELEGATES AND EVENTS	.... 212–230
19.1	Delegates	.... 212
19.2	Events	.... 214
19.3	Different Kind of Execution	.... 230

PART IV : CLASS LIBRARY

20.	CREATING OUR OWN CLASS LIBRARY	.... 233–242
20.1	Creation of Class Library and Using them in an Application	.... 233
20.2	Authentication Form	.... 238
20.3	Student Mark	.... 240
21.	OOP CONCEPTS IN LIBRARY	.... 243–260
21.1	Constructor	.... 243
21.2	Circle	.... 245
21.3	Triangle	.... 248
21.4	Inheritance in Employee Record	.... 251
21.5	Sales and Servicing	.... 255

PART V : WINDOWS CONTROL LIBRARY

22.	CREATING OUR OWN WINDOWS LIBRARY	.... 263–268
22.1	Creation of Windows Control Library and Use them as an Application	.... 263

PART VI : DATABASE, REPORTS AND GRAPHICS

23.	EXCEL APPLICATION IN VB .NET	.... 271–275
23.1	Excel in VB .NET	.... 271
23.2	Marksheet	.... 272
24.	DATABASE IN VB .NET	.... 276–289
24.1	Creating Database	.... 276

24.2	Navigation of Records	....	278
24.3	Elementary Operations of Database	....	283
25.	REPORT GENERATION	....	290–198
25.1	Crystal Report	....	290
25.2	Field Explorer and Database Expert	....	292
26.	GRAPHICS IN VB .NET	....	299–305
26.1	Displaying a String	....	299
26.2	Displaying a Line	....	300
26.3	Displaying lines	....	301
26.4	Displaying a Square	....	302
26.5	Displaying a Solid Rectangle	....	303
26.6	Displaying an image	....	304
	INDEX	...	306–309

FOREWORD

I have gone through this book written by Selvi V.Karthika. The author had undergone, ME Computer Science & Engineering in Anna University after AMIE Degree of Institution of Engineers (India), Kolkata. Her interest in Computer Science and Engineering had made her to write a book on this subject “Programming in VB .NET”.

I am very much impressed with her attempt. This Book will be useful for the Engineering student who wants to learn from the fundamentals of programming in VB .Net.

It is very common to find people from the teaching faculty writing books on such specialized subject, and it is perhaps quite unthinkable for a lecturer with a short span of 4 years experience to write on complex computer subjects like this. It is for this reason I want to congratulate Ms V. Karthika for her excellent work.

It is more commendable as her own major experience has taken in the field of Computer Science & Engineering. But then it is precisely the reason perhaps, why she is able to explain things so clearly from a different perspective. I want to compliment her for her efforts and I wish her success in all her endeavour.

—Er. T. Velayuthan

B.E. (Mech), FIE., C. Eng(I), PGDBA., PGDHRD.,

Principal

St. Xavier’s Polytechnic College

Seydunganallur – 628809

Tuticorin Dist., Tamil Nadu

PREFACE

With the Grace and Blessings of **Jesus Christ**, I feel immensely happy to publish this book “Programming in VB .NET”

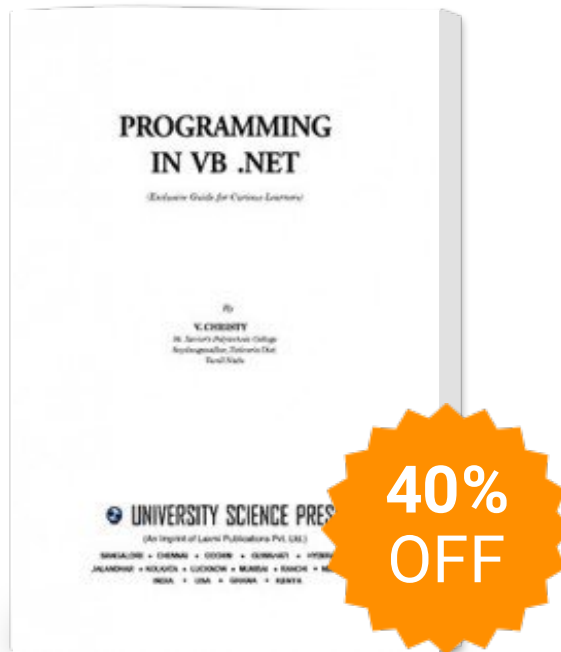
Every concept in this book has been explained with number of examples in simple manner. This book has been written for the curious learners of VB.Net in the field of Engineering and Arts & Science and also for the faculty.

Since the day of my learning VB .NET, I have been searching for a book with more examples. But I could not find that dream book. Bearing this in my mind, I have taken every effort to bring this book with as many examples as possible.

I believe that this book will be useful for the very beginners to become programming experts. Feed back from the readers are invited. This will help me to shape this book further in the future.

—AUTHOR

Programming In VB .Net By V. Christy



Publisher : **Laxmi Publications** ISBN : 9789380856940

Author : V. Christy

Type the URL : <http://www.kopykitab.com/product/3472>



Get this eBook