

Visual Basic .NET – Contents

INTRODUCTION.....	7
WHAT YOU NEED TO DO THE COURSE.....	7
THE FREE VISUAL BASIC EXPRESS EDITION	7
ADDITIONAL FILES.....	8
GETTING STARTED	9
THE TOOLBOX.....	13
ADDING A TOOL (CONTROL) TO YOUR FORM	14
PROPERTIES.....	18
SAVING YOUR WORK	25
ADDING A SPLASH OF COLOUR.....	27
REVIEW NUMBER 1	31
GETTING OUR HANDS DIRTY	32
VARIABLES	33
ADDING A BUTTON TO THE FORM	35
STRING VARIABLES.....	43
ASSIGNING VALUES FROM TEXTBOXES TO YOUR VARIABLES	47
MORE ABOUT VARIABLES	51
USING VARIABLES	55
A CALCULATOR PROJECT.....	60
DESIGNING THE FORM.....	60
THE CODE	62
THE 0 TO 9 BUTTONS.....	63
THE PLUS BUTTON.....	64
REVIEW NUMBER 2	68
CONDITIONAL LOGIC	69
IF STATEMENTS.....	69
SELECT CASE	72
COMBO BOXES.....	76
REVIEW NUMBER 3	80
PART 1 - IF STATEMENTS	80
MESSAGE BOX CONCATENATION.....	82
PART 2 - SELECT CASE STATEMENTS	83
LOOPING THE LOOP	84
WHAT IS A LOOP?	84

FOR LOOPS.....	84
DO LOOPS	88
THE TIMES TABLE PROGRAMME	91
THE CODE.....	93
A DIGRESSION	94
MORE CONTROLS - MENUS	99
CREATING SUB MENUS	105
UNDERLINE SHORTCUT	107
KEY COMBINATION SHORTCUTS	108
REVIEW FOUR.....	111
MORE ABOUT THE MESSAGE BOX	112
WRITING THE CODE FOR THE MENU SYSTEM	115
THE OPEN FILE DIALOGUE BOX.....	115
THE INITIAL DIRECTORY	118
THE TITLE PROPERTY.....	118
THE FILTER PROPERTY.....	119
SELECTING A FILE	121
THE SAVE MENU.....	122
THE EDIT MENU.....	124
THE COPY MENU	124
THE PASTE MENU	125
THE CUT MENU.....	127
THE UNDO MENU.....	127
THE VIEW MENU.....	128
THE VIEW TEXTBOXES MENU ITEM	128
THE VIEW IMAGES MENU ITEM	130
INSERT AN IMAGE.....	132
CHECK BOXES AND OPTION BUTTONS.....	134
CHECK BOXES.....	134
RADIO BUTTONS	141
REVIEW NUMBER 5	144
ERROR HANDLING AND DEBUGGING.....	149
ERROR HANDLING AND DEBUGGING.....	149
TYPES OF ERROR	149
DESIGN TIME ERRORS	149
RUNTIME ERRORS.....	151
TRY ... CATCH.....	153
LOGIC ERRORS.....	157
BREAKPOINTS	158

HURRAY FOR ARRAYS!	162
WHAT IS AN ARRAY?	162
ASSIGNING VALUES TO AN ARRAY.....	167
ARRAYS WHERE BOUNDARIES ARE NOT KNOWN	169
STRING MANIPULATION	172
MANIPULATING DATA FROM A TEXT BOX.....	175
TRIM	176
ISNUMERIC().....	177
CHAR	178
INSTR()	181
SUBSTRING.....	181
EQUALS.....	183
REPLACE	183
INSERT	184
SPLIT AND JOIN	184
JOIN.....	186
REVIEW NUMBER 6	188
TEXT FILES	189
OPENING A TEXT FILE FOR READING	189
READING LINE BY LINE.....	192
WRITING TO A TEXT FILE.....	193
APPENDING TEXT TO A FILE.....	195
CREATING A FILE IF IT DOESN'T EXIST	196
COPYING FILES	197
MOVING FILES	198
DELETING FILES	198
REVIEW NUMBER SEVEN	200
FUNCTIONS AND SUBS	203
PARAMETERS	206
BYVAL AND BYREF.....	209
FUNCTIONS	210
STANDARD MODULES	214
EVENTS	221
THE CLICK EVENT.....	221
MOUSEDOWN	223
THE KEYDOWN EVENT	227
THE FORM LOAD EVENT	230
VB.NET AND CLASSES	232
OBJECT ORIENTED PROGRAMMING	232
CLASSES AND OBJECTS	232

THE NET FRAMEWORK.....	233
NAMESPACES	233
CREATING YOUR OWN CLASSES	235
CREATING METHODS IN YOUR CLASSES.....	237
CREATING AN OBJECT FROM A CLASS.....	238
CREATING AND USING METHODS THAT DON'T RETURN A VALUE	241
CREATING YOUR OWN PROPERTIES	243
ADDING A PROPERTY TO A CLASS.....	243
USING YOUR NEW PROPERTY	247
REVIEW NUMBER EIGHT	251
VB.NET AND DATABASES	254
VISUAL BASIC 2005 EXPRESS AND DATABASES – THE EASY WAY	254
THE DATABASE OBJECTS	266
THE CONNECTION OBJECT	266
DATA SETS AND DATA ADAPTERS	270
STRUCTURED QUERY LANGUAGE	271
NAVIGATING THROUGH THE DATASET.....	276
MOVE FORWARD ONE RECORD AT A TIME	280
MOVE BACK ONE RECORD AT A TIME	281
MOVING TO THE LAST RECORD IN THE DATASET	282
MOVING TO THE FIRST RECORD IN THE DATASET.....	283
UPDATING A RECORD.....	284
ADD A NEW RECORD	286
DELETING RECORDS.....	289
REVIEW NINE.....	293
WORKING WITH FORMS	295
ANCHORING AND DOCKING	295
DOCKING.....	297
TOOLBARS	298
CODING FOR YOUR TOOLBAR BUTTONS	303
CREATING OTHER FORMS.....	303
MODAL AND NONE MODAL FORMS	305
GETTING AT VALUES ON OTHER FORMS.....	307
REVIEW TEN.....	312
HELP WITH THE CODING.....	314
FINAL WORD	321