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Fall 2005

CS 214: Visual Basic.NET

Roddy Keish

Wright State University - Main Campus

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CS 214

Visual Basic.NET

Instructor: Roddy Keish

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CS 214 Visual Basic.NET

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CS214 Schedule and Grading – Fall 05

Classes Begin 6 Sep 05
Classes End 12 Nov 05

1st Quiz 26 Sep 05
2nd Quiz 17 Oct 05
3rd Quiz 9 Nov 05

CS 214 Schedule and Grading*
Fall Quarter 05

Week Of	Monday	Wednesday
5 Sep 05		Intro to Class, Ch 1 & 2
12 Sep 05	Ch 2 & 3	Ch 3, Hand Out Assign 1 Ch 4
19 Sep 05	Ch 4	Ch 5 Assign 1 Due Hand Out Assign 2 Vintage Video for Ch 2, 3, 4 Due
26 Sep 05	Ch 5 Exam 1 - Covers Ch 2, 3, and 4	Ch 5b, Assign 2 Due Hand Out Assign 3
3 Oct 05	Ch 6	Ch 7
10 Oct 05	Ch 7b Assign 3 Due Hand Out Assign 4	Ch 8
17 Oct 05	Ch 8 Assign 4 Due Exam 2 - Covers Ch 5, 6, and 7	Ch 8b Hand Out Assign 5
24 Oct 05	Ch 9 Exam 3 - Covers Ch 8, 9, and 10	Ch 9 Assign 5 Due Hand Out Assign 6
31 Oct 05	Ch 9/10	Ch 10 Assign 6 Due Hand Out Assign 7
7 Nov 05	Ch 10	Assign 7 Due Exam 3 - Covers Ch 8, 9, and 10

Grading: Vintage Videos: 10 Points Each (1 Vintage Video)
Homework: 10 Points Each (7 Homeworks)
Exam: 20 Points Each (3 Exams) Open Book, Open Notes,
Computer On

Grading is on a straight 90-89-70-60 scale. Individual exams may be curved, as well as the final grades. But only if necessary. Weight of grades are:

- Exam 10% each (35% total) - (20 Points each * 3 = 0.583)
- Programming Assignments 60% - (10 Points each * 7 = 0.857)
- Vintage Video 5% - (10 Points * 1 Vintage Video = 0.5)

*Subject to Change



Learning to Program with VISUAL BASIC.NET
Patrick G. McKeown, Univ. of Georgia
ISBN: 0-471-22971-7
©2004
544 pages

Table Of Contents

- 1 - An Introduction to Programming and Visual Basic.NET
- 2 - Using VB.NET to Create a First Project
- 3 - Variables, Assignment Statements, and Arithmetic
- 4 - The Selection Process in VB.NET
- 5 - The Repetition Process in VB.NET
- 6 - Working with Arrays in VB.NET
- 7 - Using Functions, Subs, and Modules
- 8 - Using User-Defined Data Types and Object-Oriented Programming
- 9 - Working with Databases in VB.NET
- 10 - Security, Menus, Files, and Graphics

Instructor Info

- E-Mail
 - Office - roddy.keish@wpafb.af.mil
 - Home - keishr@Gemair.com
- Available anytime by E-Mail (with restrictions). I will be at class at least 1/2 hour before the start of class and 1/2 hour after (if requested).

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Homework Turn-In

- The programming assignments are due **one week after they are passed out in class and are due at the BEGINNING of class, unless otherwise specified.** Assignments are as shown in the class schedule. It is the student's responsibility to obtain the homework from me if you do not attend class. You **MUST** have permission from me to turn in assignments late. Late homework will receive a 50% point reduction. You must turn in:
 - Disk containing a working version of the project (Always make back ups)
 - Printed copies of the Form Image, Code and any additional print outs as requested in the assignment. **Please print out code single side only.**
- **Submit your project in a manilla envelope with clasp (~13.5" x 10.5"). Print your name, the assignment number, instructor name, and the course number (CS 214) on the outside. PLEASE make sure the assignment info is legible.**

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Homework Turn-In (Cont.)

- Make sure you have plenty of disks and envelopes. Your assignment is due one week from when the assignment is passed out. Every attempt to return your graded assignment within two class periods will be made, however, this is not guaranteed.
- Homework which is not neat and readable will be turned back with a 20% reduction in points.
- If your assignment can not be run due to missing files a 50% reduction in points will be assessed.
- Run your program before submitting it and test it thoroughly.
- Students may discuss homework assignments with others. But are expected to complete and turn in their own work. Students who copy another student's assignment or share computer files will be given a grade of "F".

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Homework Assistance

- I will read email addressed to my GemAir home account once on Sunday morning and Sunday night as a **minimum**.
- Please send Email requests for assistance to both my work and home email addresses. Please send all files as well as a description of what problem you are having
- Please, if possible, do not wait until the day homework is due to request help. I may not be available to provide adequate help due to meetings at work.
- Homework assistance is only provided if a majority of the project (70%-80%) is complete. Please describe in your email what problem you are having and I will respond promptly.
- Not being able to contact me is not an excuse for not turning homework in on time.
- I will be available at least ½ hour before class and will stay after class upon request.

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Documentation of Code

In the General Declarations Section of the form, Always use comments to identify the course, your name, the date, instructor, and a general comment about the assignment.

```
' CS 214
' John Doe
' 14 Sep 05
' Instructor: Roddy Keish
' This is Assignment 1 - This project calculates the area
' and circumference of a circle
```

You must also use at least a one line comment in each event of your project. Also, indentation of code is required for readability. All controls must be named!! (except for descriptor labels)

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Examples

```
(General)  Declarations
1  ' CS 214
2  ' John Doe
3  ' 14 Sep 05
4  ' Instructor: Roddy Keish
5  ' This is an Example - This program appends the contents of txtEnterName
6  ' to the phrase "Your Name is:" and displays the result in lblDisplay
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9  Public Class Form1
10     Inherits System.Windows.Forms.Form
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12     Windows Form Designer generated code
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Filename Naming Conventions

moduleDesignator_1stFiveCharofYourLastNameAssignmentNumberform/moduleNumber
1 char 5 char 2 digits 1 char

Example: Assuming Assignment 1

keish01.sln for solution filename

keish01.vbproj for project filename

f_keish011.vb for the first form filename

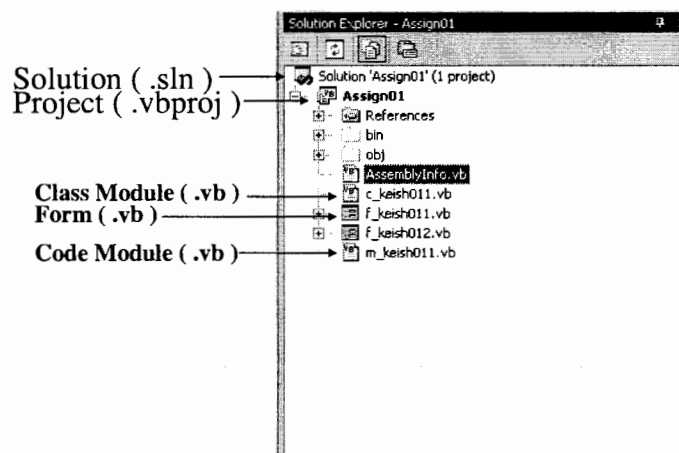
f_keish012.vb for the second form filename

m_keish011.vb for the first code module

c_keish011.vb for the first class module

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Filename Naming Conventions as seen in Solution Explorer



12

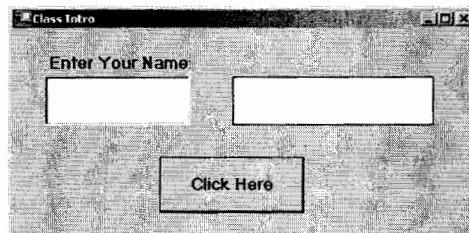
Filename Naming Conventions as seen in Windows Explorer

Name	Size	Type	Date Modified
bin		File Folder	8/2/2005 1:43 PM
obj		File Folder	8/2/2005 1:37 PM
AssemblyInfo.vb	2 KB	Visual Basic Source	8/2/2005 1:37 PM
Assign01.sln	1 KB	Microsoft Visual Stu...	8/8/2005 10:19 AM
Assign01.suo	9 KB	Visual Studio Solutio...	8/8/2005 10:57 AM
Assign01.vbproj	5 KB	Visual Basic .NET Pr...	8/8/2005 10:52 AM
Assign01.vbproj.user	2 KB	Visual Studio Projec...	8/8/2005 10:57 AM
c_keish011.vb	1 KB	Visual Basic Source	8/8/2005 10:52 AM
f_keish011.resx	9 KB	RESX File	8/2/2005 1:55 PM
f_keish011.vb	4 KB	Visual Basic Source	8/2/2005 1:55 PM
f_keish012.resx	2 KB	RESX File	1/30/2002 1:05 AM
f_keish012.vb	2 KB	Visual Basic Source	8/8/2005 10:51 AM
m_keish011.vb	1 KB	Visual Basic Source	8/8/2005 10:52 AM

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Printing Your Forms

- Run your project
- With the form displayed on the screen
 - Hit **Alt – Print Screen**
- Paste the form into Word, Notepad, Paint, WordPad, Excel, or PowerPoint and print the form



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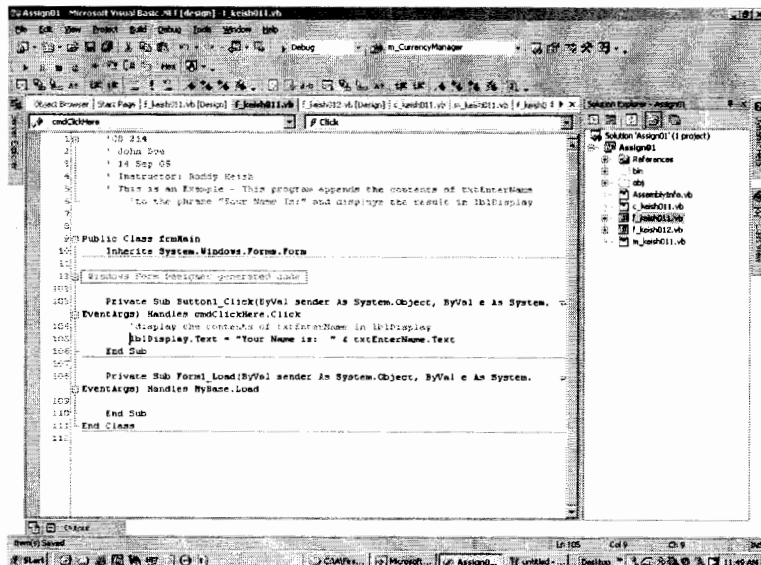
Printing the Code in Your Project

- Click on the Form, Code Module, or Class Module you wish to Print (Make sure that the code window for the object you want to print the code for is visible)
- Go to File|Print on the Visual Basic.NET Menu
 - This will print only the code for the form, code module, or class module selected in the Solution Explorer Window

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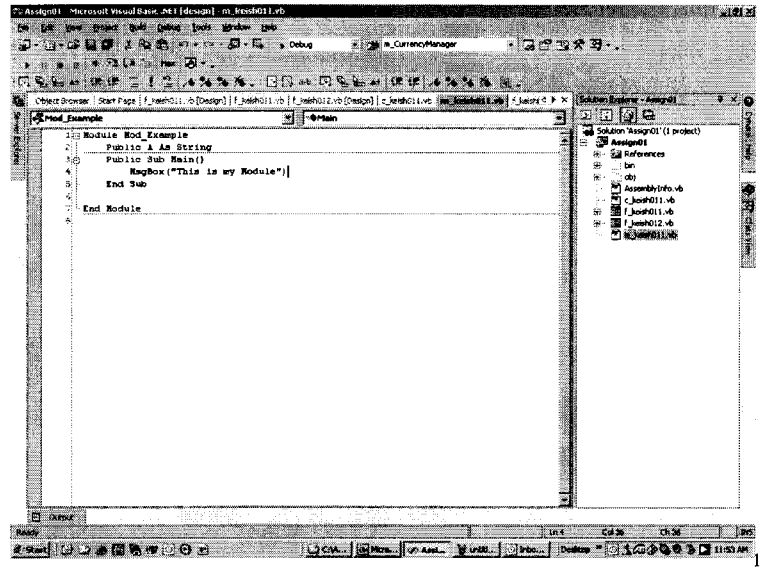
Printing the Code in Your Project

f_keish011.vb is shaded. Code will print for that form



Printing the Code in Your Project

m_keish011.vb is shaded. Code will print for that module



Naming Conventions for Objects

Object	Prefix	Example
Form	frm	frmVintage
Button	btn	btnExit
Label Control	lbl	lblOut
PictureBox Control	img	imgIcon
TextBox Control	txt	txtInput
List ox Control	lst	lstNames
ComboBox Control	cbo	cboNames

Note: All Controls in your project, with the exception of labels which describe other controls, must be named or points will be deducted from your project . Always name controls prior to coding.

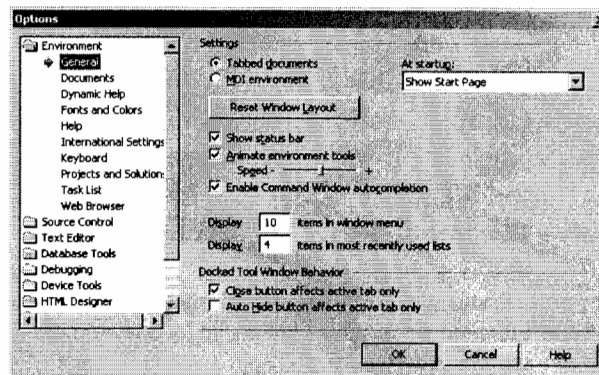
Options Dialog Box Help Search



19

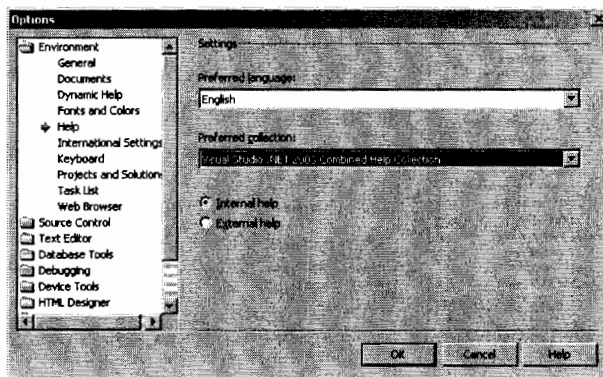
Basic Screen SetUp

- The following screen shots are the setup options I would like you to select (if they are not already the defaults).
- These are found under Tools|Options



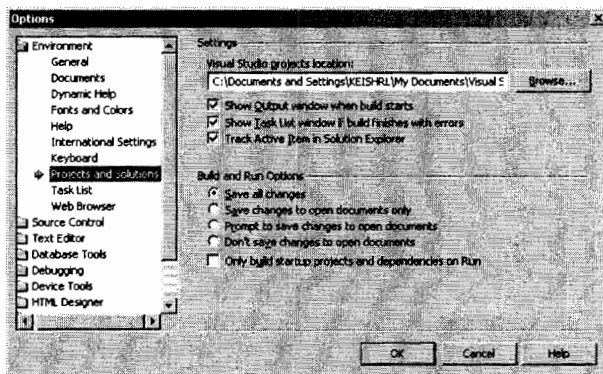
20

Basic Screen SetUp



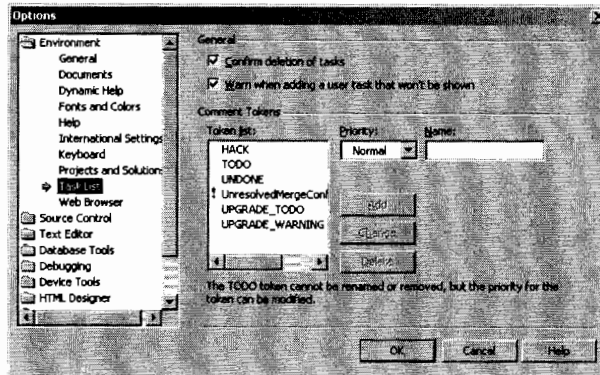
21

Basic Screen SetUp



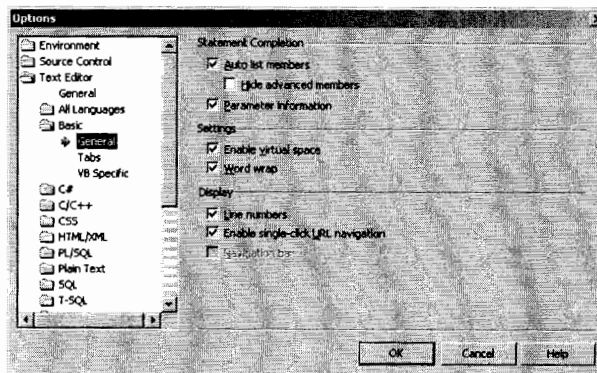
22

Basic Screen SetUp



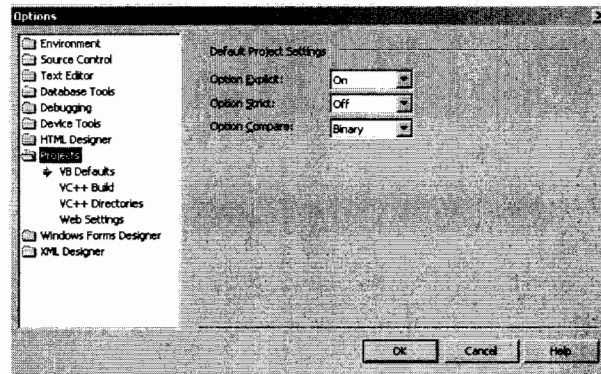
23

Basic Screen SetUp



24

Basic Screen SetUp



25

Class Room Rules

- No Internet Surfing
- No Telephones or Beepers
 - Violating either will result in a loss of 10 points for each occurrence

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