

C0004 Final Exam Topics

Chapter2

1. What is an algorithm
2. What is pseudocode
 - a. Why is it necessary
 - b. How to write one
3. What is a bug
 - a. Types of bugs/errors

Chapter 3

1. Need to know what visual Basic controls are and their properties and how to set them
 - a. Name
 - b. Text
 - c. ForeColor
 - d. BackColor
 - e. Enable
 - f. Etc.
2. How to use a list box
 - a. Add items
 - b. Get Items
 - c. Remove Items
 - d. Clear Items
3. What are events? Examples of Events.
4. Strings
 - a. Concatenation (&)
 - b. Substring
 - c. Length
 - d. indexOf
 - e. ToUpper
 - f. ToLower
5. Numbers
 - a. CInt
 - b. CDbI
 - c. Arithmetic operations (+-/*^)
 - d. Math.sqrt
6. Variables
 - a. Dim
 - b. Valid variable names

- c. What are data types and why should they be specified during declaration

Chapter 4

1. What's a sub procedure
2. What's an Event procedure
3. What's a function (how is it different from a sub procedure)
4. How to declare and use sub procedures and functions
5. ByVal and ByRef (meanings)
6. What are parameters
7. Variable Scope
 - a. Local scope
 - b. Class scope

Chapter 5

1. String comparisons
2. Relational operators
 - a. <, >, >=, <=, <>, =
3. Logical Operators
 - a. AND, OR, NOT
4. If Statements
 - a. Else
 - b. Else IF
5. Boolean expressions
 - a. True or False
6. Select Case
 - a. How to use them

Chapter 6

1. Loops
 - a. Do While
 - b. Do Until
 - c. For Next
2. Know the difference between the different types of loops
3. What is an infinite loop – loops that go on forever!(should be able to recognize one)

Chapter 7

1. What is an Array? How do you declare an Array?
2. Difference between size and upperbound
3. How do you get the upperbound of an array (GetUpperbound(0))
4. Using loops to access all the elements in an array
5. Searching through an array
 - a. Sequential search
 - b. Binary search
6. Sorting an array
 - a. Bubble sort
 - i. Should know how to run the steps
7. Structures

Chapter 8

1. IO.StreamReader
 - a. How open a file for reading
 - b. How to read a file
2. IO.StreamWriter
 - a. How to open a file for writing
 - i. Create
 - ii. Append
3. The **Split** function for strings

Chapter 9

1. List box and Combo boxes
2. OpenFileDialog
3. GroupBox
4. Radion Button
5. Check boxes
6. Picture Box
7. Timer Control
 - a. Enable
 - b. TimerInterval