Topics for Midterm Review

Hardware and Software Overview

Computer Hardware Central Processing Unit (CPU)

Primary Storage

Main Memory or Internal Memory (RAM)

Secondary Storage

Hard Disk Drives (HDD) Optical Drives (CD, DVD, BD)

Flash Memory (USB Flash drives or keys)

Floppy Disks Magnetic Tape

Volatile vs. Non-volatile Memory

Input Devices Output Devices

Binary Numbers

Software

Operating Systems Application Software

Syntax Errors vs. Runtime Errors

Integrated Development Environment (IDE)

Visual Studio

Code View

Form Design Tool **Debugging Tool**

VS Solution VS Project

Visual Basic Concepts

Data Types

Literals

Declaring and using variables

Variable Scope

Local Scope vs. Class Scope

Operators

Expressions, arithmetic and Boolean expressions

Operator precedence

Type Conversion

Control structures

Conditional Statements

If...Then

If...Then...Else

If...Then...ElseIf

Select...Case

Loop Statements

Do...While

Do...Until

For...Next

Pretest Loops

Posttest Loops

Infinite Loops

Nested Loops

TryParse

With...EndWith

Exception Handling

GUI Programming

Forms

Form Design Tool

Controls

Button

CheckBox

CheckedListBox

ComboBox

Label

ListBox

RadioButton

TextBox

ToolTip

PictureBox

Containers

GroupBox

. MessageBoxes

InputBoxes

Control Properties

TabIndex

Focus

Keyboard Access Keys

Event Driven Programming

Events

Event Handler

Responding to Events

Event Procedures

Access Specifiers

Private

Public

Methods - Procedures and Functions

Declaring a procedure

Declaring a function

Arguments

ByVal and ByRef Arguments

Returning a value

Local Variables

Static Local Variables