

Topics for Final Review

Chapters

7. Multiple Forms, Standard Modules, and Menus
8. Arrays, Timers, and More
9. Files, Printing, and Structures
10. Working with Databases
11. Developing Web Applications
12. Classes, Collections, and Scrollable Controls

Forms

Multiple Forms
Form Events and Handlers
Me keyword
Modal vs. Modeless Forms

Modules

Organizing Procedures and functions into Modules
Public and Private procedures
Global Scope
Global Variables
Module Scope
Main Procedure
Startup object
Standard Module

Menus

Menu Designer
Menu System
Menu Toolbox items
MenuStrip Control
StatusStrip Control (Status Bar)
Tool Strip
Context menus
Adding menus to forms
Menu Events and Handlers
Shortcuts
Checked Menu commands
Submenus
Separator Bars
Anchoring and Docking Controls

Object Oriented Programming

Arrays and array processing
Multi-dimensional arrays
Array Bound Checking
Working with For and For-Each Loops
Random Numbers
Array algorithms (finding minimum, maximum, average, sorting, binary search)
Dynamically Resizing Arrays
Passing an Array as an argument
Returning an Arrays from a Function
ByVal and ByRef Arguments
Collections
Access Specifiers – Public, Private, Protected
Object Instantiation
Inheritance
Base and Derived Classes
Overriding Properties and Methods

Base and Derived Class Constructors

Event Driven Programming

Form Events and Handlers

Menu Events and Handlers

Splash Screens

Timer Control

Scrollable Controls

Scroll Bars and Track Bars

Databases

DBMS and RDBMS

SQL

Databases, Tables, Fields (Columns), Records (Rows)

SQL Data Types

Primary and Foreign Keys

DataGridView Control

Data-Bound Controls

Data Sources

Binding Source

Table Adapters

Datasets

Web Applications

HTML Language, HTML Tags and HTML Controls

Cascading Style Sheets (CSS)

HTTP Protocol

Client-Server Architecture

Request-Response Model

ASP.NET, IIS

Web Forms

Web Server Controls

Types of Web Sites

Codebehind

Web.Config

Event Handling in Web Forms