ET-580 – Object Relationships - Outline

Reading: Absolute C++ Chapter 14: Inheritance

Topics

Composition / Aggregation / Association / Dependency / Inheritance

Multiple Inheritance
Multiple Inheritance & the Diamond Problem

Redefining vs Overloading Functions
Destructors, Copy Constructors & Assignment Operators and in Derived Classes

Inheritance Member Access Modifiers (Public/Protected/Private)
Inheritance Access Modifiers (Public/Protected/Private)

Terminology

Base
Child
Derived
Parent

"is a"
"has a"

Base Data Member	Inheritance Type	Child Accessibility
Public	Public	Public
Protected		Protected
Private		n/a
Public	Protected	Protected
Protected		Protected
Private		n/a
Public	Private	Private
Protected		Private
Private		n/a