

Day 5

The one link you need to recall

<https://ddls.to/20483>

Ready?

Do this every day BEFORE the class starts (takes about 15 minutes)
(<http://ddls.to/everyday>)

1. Launch Lab01.
2. Login to Lab01 as **Admin**.
3. While in the Lab01 environment,
 - i. run **cmd.exe** from the Windows Start button.
 - ii. Run the command **git clone --depth 1 <https://github.com/Mark-AI/CT/CAD-2.git> C:\Users\Admin\Desktop\MarksFiles**
 - iii. Navigate to **C:\Users\Admin\Desktop\MarksFiles\setups**, then right-mouse click **bootstrap.cmd** and run as administrator
 - iv. While it's running, Sign in to Visual Studio on the Lab Environment. You can use any Microsoft account.
 - v. When the script end it reboots the Virtual Machine. That's necessary.
 - vi. Save the lab. (the save link is at the top right of the screen in the dropdown menu)

Course Outline

- Module 1: Review of Visual C# Syntax
- Module 2: Creating Methods, Handling Exceptions, and Monitoring Applications
- Module 3: Developing the Code for a Graphical Application
- **Module 4: Creating Classes and Implementing Type-Safe Collections**
- Module 5: Creating a Class Hierarchy by Using Inheritance
- Module 6: Reading and Writing Local Data
- Module 7: Accessing a Database

Module 4 Overview

- Creating Classes
- Defining and Implementing Interfaces
- Implementing Type-Safe Collections

Module 4 , Lesson 1: Creating Classes

- Creating Classes and Members
- Instantiating Classes
- Using Constructors
- Reference Types and Value Types
- Demonstration: Comparing Reference Types and Value Types
- Creating Static Classes and Members
- Testing Classes

Module 4, Lesson 2: Defining and Implementing Interfaces

- Introducing Interfaces
- Defining Interfaces
- Implementing Interfaces
- Implementing Multiple Interfaces
- Implementing the IComparable Interface
- Implementing the IComparer Interface

Module 4 ,Lesson 3: Implementing Type-Safe Collections

- Introducing Generics
- Advantages of Generics
- Constraining Generics
- Using Generic List Collections
- Using Generic Dictionary Collections
- Using Collection Interfaces
- Creating Enumerable Collections
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