
C#: Coding Challenges

This month your Project & Portfolio work will include code challenges using the C# language. At the end of this course you will create a formal video presentation to demonstrate your code and what you have accomplished this month.

Progress checks occur each week. Refer to the *Progress Check* assignment each week to understand how points are awarded for coding.



Instructions

Follow these initial steps to begin work on your coding challenges.

Important Note: Before you begin coding, attend or review the first Lecture. This may occur online *via “GoToMeeting”* or in person for campus students. The first lecture usually occurs no later than Wednesday of Week 1. Be sure to take notes.

Step 1 - Create a DVP1 Project

- After review of your lecture notes, clone your online class repository to your Mac
- In Visual Studio, create a new C# console application solution entitled DVP1.CE1 and save this solution/project to your cloned repository on your Mac
- In the header area of the main *Program.cs* file, include the following information...

```
// Name: First Last  
// Date: Year and Month. For example 1705  
// Course: Project & Portfolio 1  
// Synopsis: Briefly explain this Coding Project
```

Step 2 - Add a Class File for each Coding Challenge

- Briefly review the “Challenges” folder of your class repository
- In Visual Studio, right click on the project title **DVP1.CE1** in your *Solution Explorer*.
 - Select *Add*, then *Class* to create a class file for each challenge listed in your Challenges folder, beginning with **Menu.cs**
 - Use this naming convention for each new class file: **ChallengeTitle.cs**
For example... “**SwapName.cs**”
 - Do NOT include any prefix number in your class file title.
For example... “**02-SwapName.cs**”
 - Use unique names for your class methods (related to the code challenge)
 - Also include the following header information for each class file.

```
// Name: First Last  
// Date: Year and Month. For example 1705  
// Course: Project & Portfolio 1  
// Synopsis: Briefly explain this Coding Challenge
```

Step 3 - Work on Code Challenges

- Perform regular and meaningful commits to your repository as you work on each challenge, to show iterative progression.
- Push to your repository at regular intervals during each working session.



Meaningful Commits, Comments and Prompts

A meaningful commit or comment is a brief statement that can explain the code in progress. Good programmers normally add comments throughout code and make multiple commits when working on a task, completing, or testing functionality.

A meaningful prompt provides context. For example, when displaying information back to the user, qualify this with additional information: “This is the first name you entered: **John**”

Grading

Refer to your rubric, assignment, and course instructor direction to understand how grading is applied for coding. Additional code challenges may be introduced in this class.