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iLab 7 of 7: Code Management and Modularity

Submit your assignment to the Dropbox located on the silver tab at the top of this page.

(See the Syllabus section "Due Dates for Assignments & Exams" for due dates.)

Remember This!

[Connect to the iLab here.](#)

i L A B O V E R V I E W

Scenario and Summary

This week, we learn how to manage complexity by putting together a ready-built application that comprises a number of separate header and source files. Our job here will be to take these individual files and combine them into one standalone application. Although the process is quite a simple one, it will emphasize the advantage of modularity when writing code. It also shows how code can be reused between programmers and/or applications.

Deliverables

Due this week:

- Capture the Console output window and paste it into a Word document.
- Zip the project folder in Microsoft Visual Studio.
- Put the zip file and screen shots (Word document) in the Dropbox.

i L A B S T E P S

Overview

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Preparation:

Download the [Lab_7_files.zip](#).

STEP 1: Create the Project[Back to Top](#)

1. Create a new C++ console-based project.

STEP 2: Add Files to Your Project[Back to Top](#)

1. Unzip the source code and header files found in Doc Sharing (Lab_7_files.zip), and then add these files to your project as needed.

STEP 3: Build and Test[Back to Top](#)

1. Build your project (compile your program).
2. Eliminate all syntax errors.
3. Run the program.

STEP 4: Label Title[Back to Top](#)

1. Capture a screen print of your output [Do a PRINT SCREEN and paste into an MS Word document.]

This is a sample program output:

```
*** Welcome to Shelly's Candy Shop ***
To select an item, enter
1 for Candy
2 for Chips
3 for Gum
4 for Cookies
9 to exit
4
Please deposit 85 cents
25
Please deposit another 60 cents
60
Collect your item at the bottom and enjoy.
*****

*** Welcome to Shelly's Candy Shop ***
To select an item, enter
1 for Candy
2 for Chips
3 for Gum
4 for Cookies
9 to exit
2
Please deposit 65 cents
65
Collect your item at the bottom and enjoy.
*****

*** Welcome to Shelly's Candy Shop ***
To select an item, enter
1 for Candy
2 for Chips
3 for Gum
4 for Cookies
9 to exit
9
Press any key to continue . . . _
```

2. Zip your project files.
3. Submit the Word document with screen print and zip file to the Dropbox.

STEP 5: Submit Deliverables

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Submit your lab to the Dropbox located on the silver tab at the top of this page. For instructions on how to use the Dropbox, read these [step-by-step instructions](#) or watch this [Dropbox Tutorial](#).

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