

CSC 1101 – Problem Solving and Programming Laboratory

Warmup Lab 3 (not graded)

1-Canvas

This section has you download and save two files in your storage space:

WarmupLab03.cpp

CSC1101-DanO-WarmupLab03b.docx

- 1) Open the Canvas web site for CSC 1100.
- 2) Select Canvas item **Assignments / Warmup Lab 3**.
- 3) Click link **WarmupLab03.cpp**.
- 4) Move the file from your **Downloads** folder to your **CSC 1101 / Lab Code** folder.
- 5) Select Canvas item **Assignments / Warmup Lab 3**.
- 6) Click link **CSC1101-DanO-WarmupLab03b.docx**.
- 7) Move the file from your **Downloads** folder to your **CSC 1101 / Labs** folder.

2-Visual Studio

This section has you create a generic C++ console application project that you may use all semester. You may use this one project to hold the single .cpp file needed for each lab application. Whether you create one project for each lab application or use this generic project for all lab applications, **you will always have only one .cpp file per project at any given time**. That lone .cpp file appears within a Visual Studio project in the **Solution Explorer** pane under folder **Source Files**.

- 1) Open Visual Studio.
- 2) Close any open solution by clicking **File / Close Solution**.
- 3) Create a Visual C++ CLR console application:
 - 1) From the Visual Studio screen, select **File / New / Project ...**
 - 2) From the New Project screen:
 - a) Select **Visual C++ / CLR / CLR Empty Project**.
 - b) For a Name, enter **ConApp2017** (leave Solution Name the same).

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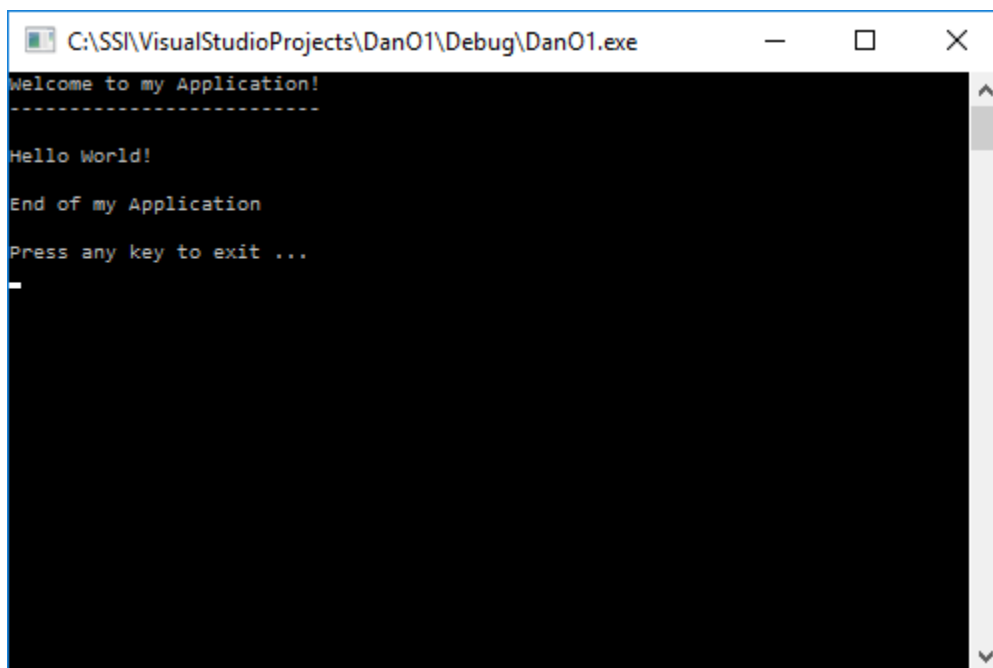
- c) For a Location, click **Browse ...**, navigate to your folder **CSC 1101 / Projects**, and click **Select Folder**.
- d) Click **OK**.

It may take a few minutes to create the project.

4) Add code to the project:

- 1) From the Visual Studio project screen, Solution Explorer pane, right-click **Source Files**, and select **Add / Existing Item ...**
- 2) From the Add Existing Item screen, navigate to file **C++Template.cpp** (downloaded from Canvas), and click **Add**.

5) Run the program by clicking **Local Windows Debugger**. It may take a few minutes to run the program the first time. The following screen appears:



```
C:\SS\VisualStudioProjects\DanO1\Debug\DanO1.exe
Welcome to my Application!
-----
Hello World!
End of my Application
Press any key to exit ...
_
```

6) End the program by pressing any key.

7) Switch to another .cpp file.

- 1) From the Visual Studio project screen, Solution Explorer pane, right-click file **C++Template.cpp**, and click **Remove**.
- 2) From the Visual Studio project screen, Solution Explorer pane, right-click **Source Files**, and select **Add / Existing Item ...**
- 3) From the Add Existing Item screen, navigate to file **WarmupLab03.cpp** (downloaded from Canvas), and click **Add**.
- 4) Double-click file **WarmupLab03.cpp**.

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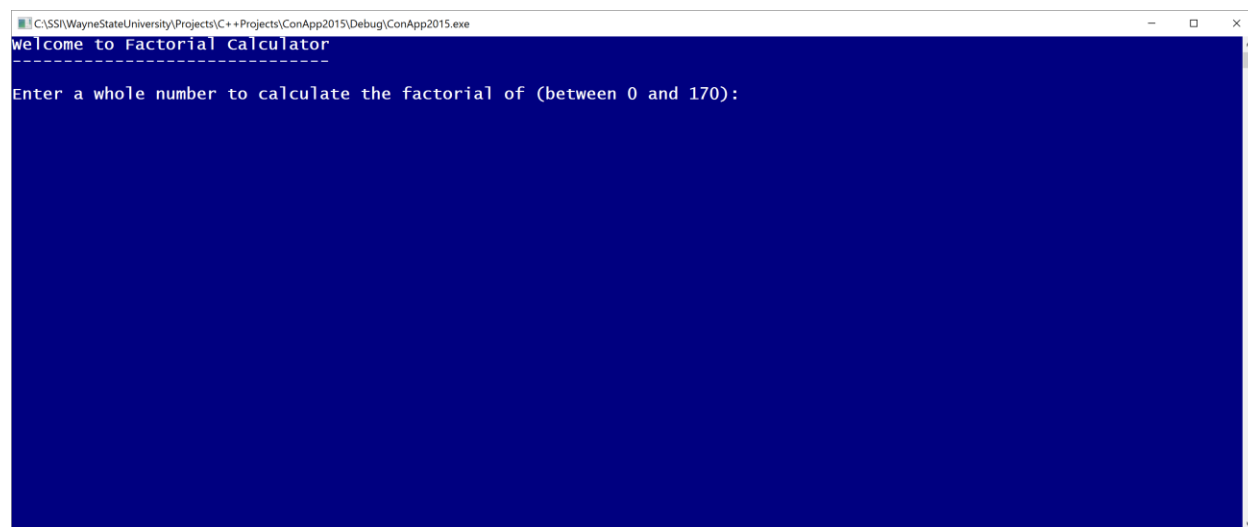
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8) Edit the header comment per the following code. Replace <name> with your name, and <date> with today's date:

```
//=====
//
// Title:      Warmup Lab 3
// Course:     CSC 1101
// Lab Number: Warmup Lab 3
// Author:     <name>
// Date:       <date>
// Description:
//   This C++ program gets a number from the user and
//   calculates the factorial of it.
//
//=====
```

9) Run the program by clicking **Local Windows Debugger**. It may take a few minutes to run the program the first time. The following screen appears:



10) Enter a number and press **ENTER**.

11) End the program by pressing any key.

12) Open your lab assignment document **CSC 1101 / Labs / CSC1101-DanO-WarmupLab03b.docx**.

13) Copy-and-paste the *program code* to your lab assignment document:

1) Click anywhere within the program.

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- 2) Press **CTRL-A** (select all) and then press **CTRL-C** (copy).
 - 3) Within the document, locate the line:
[your program code here]
 - 4) Just after that line, press **CTRL-V** (paste).
- 14)** Copy-and-paste the *program output* to your lab assignment document:
- 1) From the Visual Studio project screen, click **Local Windows Debugger**.
 - 2) Enter a number and press **ENTER**.
 - 3) From the output window, press **ALT-PrintScreen** (copy active window).
 - 4) End the program by pressing any key.
 - 5) Within the document, locate the line:
[your program output here]
 - 6) Just after that line, press **CTRL-V** (paste).
- 15)** Save and close your lab assignment document.
- 16)** Close Visual Studio.

3-Canvas

This section has you submit your lab assignment document (CSC1101-DanO-WarmupLab03b.docx) to your TA for grading (but this one won't be graded).

- 1) Open the Canvas web site for CSC 1100. For graded labs starting September 11, you will open the Canvas web site for CSC 1101.
- 2) Select Canvas item **Assignments / Warmup Lab 3**.
- 3) Click **Submit Assignment** (or **Re-submit Assignment**).
- 4) Click **Choose File**, navigate to and select document **CSC1101-DanO-WarmupLab03b.docx**, check on the original work check box, and click **Submit Assignment**.