NATIONAL UNIVERSITY
OF COMPUTER & EMERGING SCIENCES
PESHAWAR CAMPUS

Problem Set:	Assignment: AG11	**Semester**:	Fall 2017
Points:	*See autograder*		
Date Set:	*See autograder*	**Due Date**:	*See autograder*
Course:	CS101 Introduction to Computing	**Instructor**:	Dr. Nauman

1 Getting started with C++

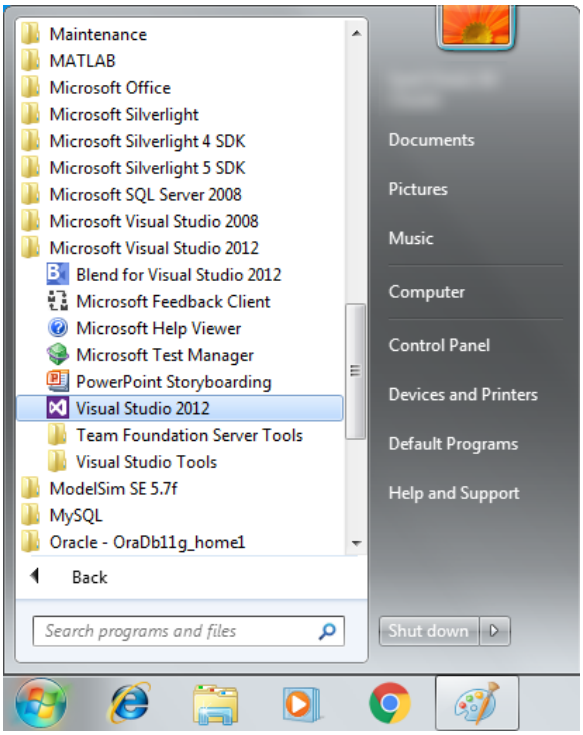
Since you are reading this, you have already downloaded and extracted the zip file.

1.1 Tasks to do

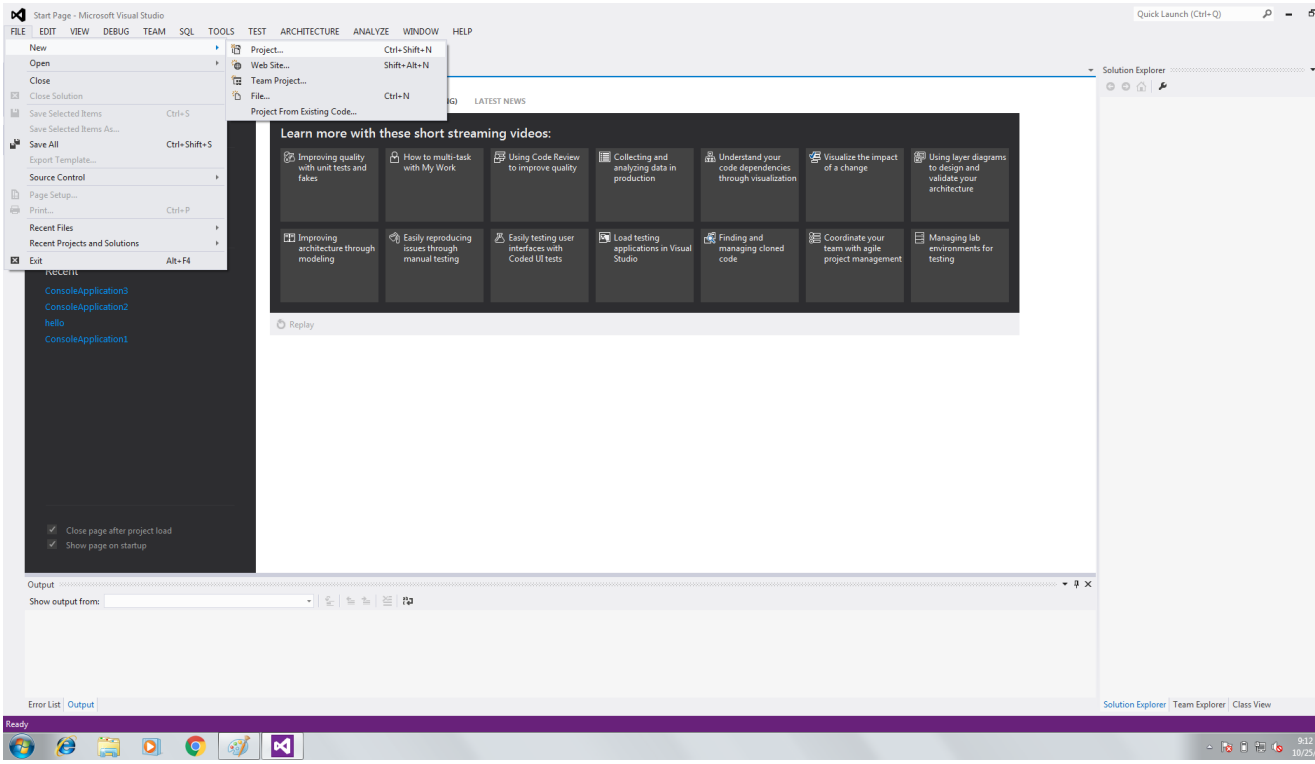
1. If you are on **Linux**, install g++ using the following command: `sudo apt-get install g++`
2. If you are on a **Mac**, open Terminal and issue the following command: g++

   You will get a popup telling you to install developer tools. Just click on 'Install' on this popup. (You do not need the full xcode.)
3. If you are on **Windows**, follow the rest of the 6 pages of instructions: First, you need to ensure you have **both Visual Studio 2012 and Dev-Cpp IDE installed** on your the machine you're using. This is already the case in the systems in our labs. For your own machine, you can get the installers for both of these from the Lab people. Please install both softwares in their default locations as changing locations might cause problems with test submission.
4. Follow this how-to to get started with Visual Studio:

   (a) Start Visual Studio from the start menu.

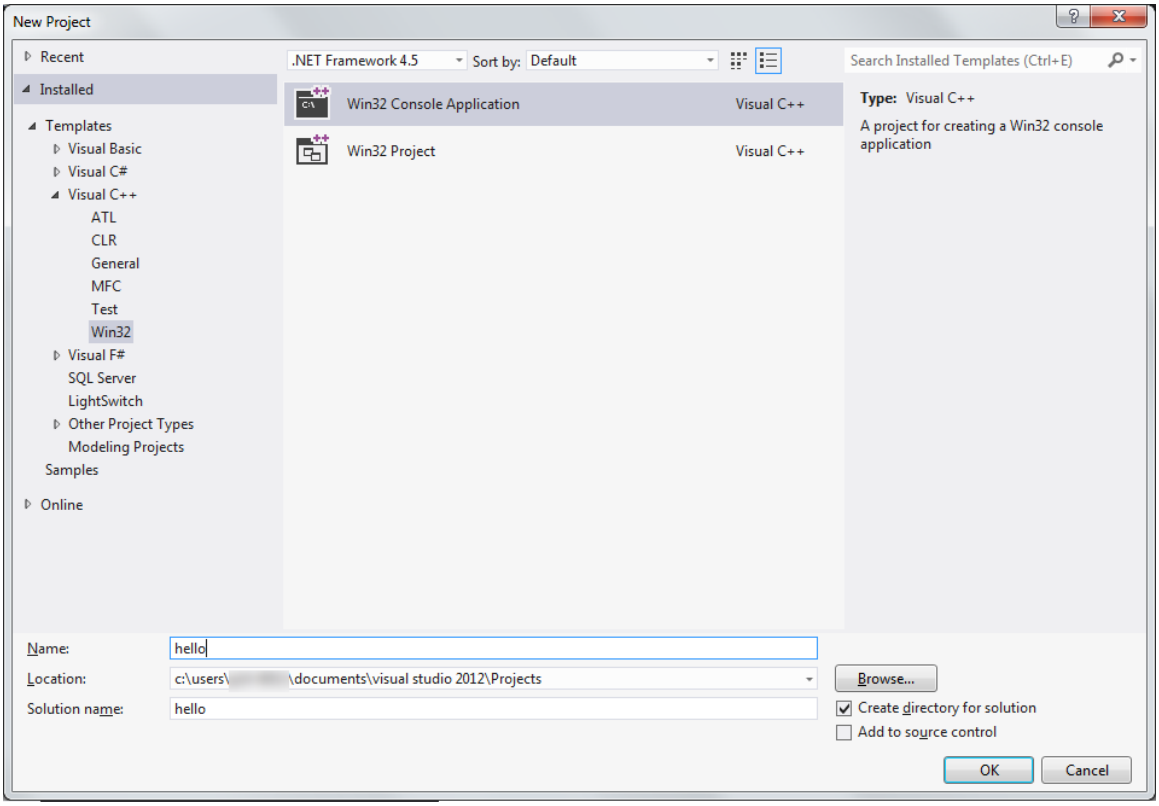


(b) In the main screen for the IDE, click on File → New → Project.

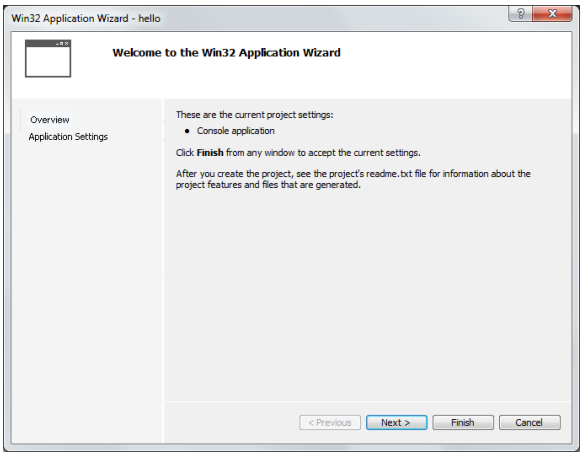


(c) In the new project wizard, select Installed → Templates → Visual C++ → Win32 and then select **Win32 Console Application** from the main pane.

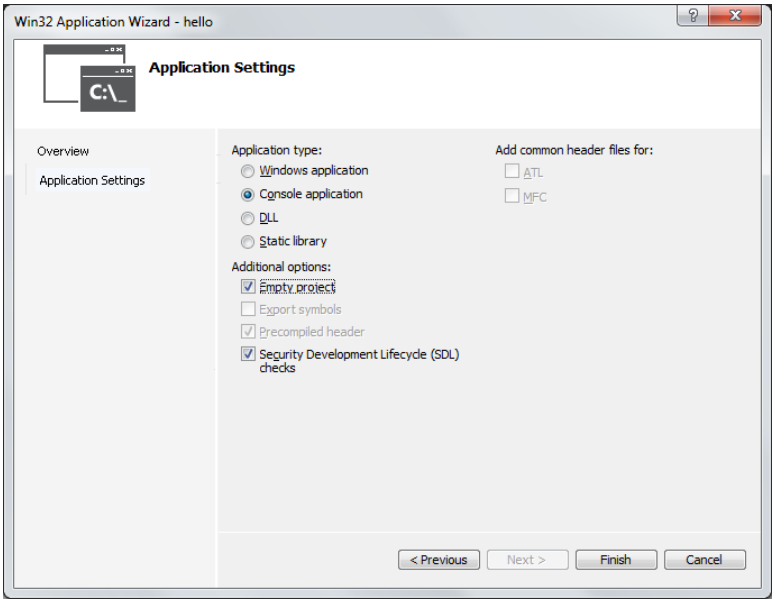
Give `hello` as the project name and leave everything else to defaults. Click Ok.



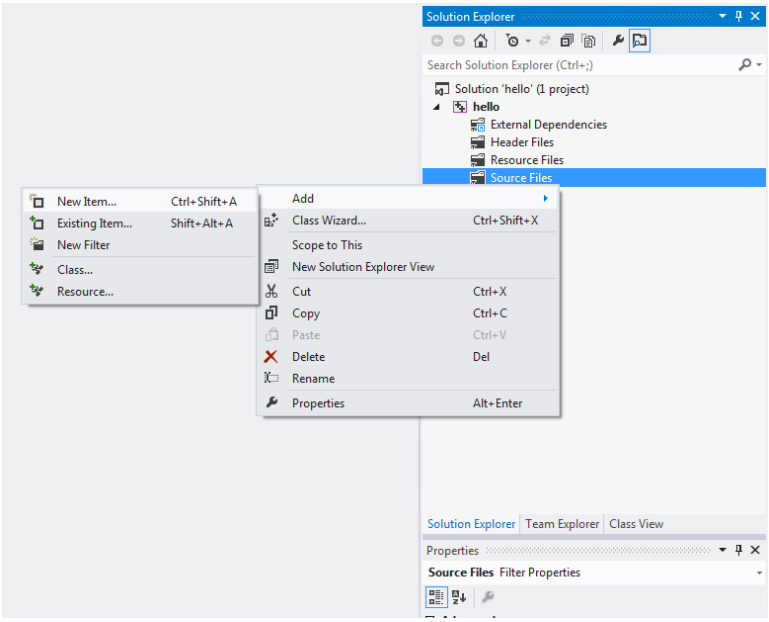
(d) In the next screen, click on Next after reading what the nice application has to say:



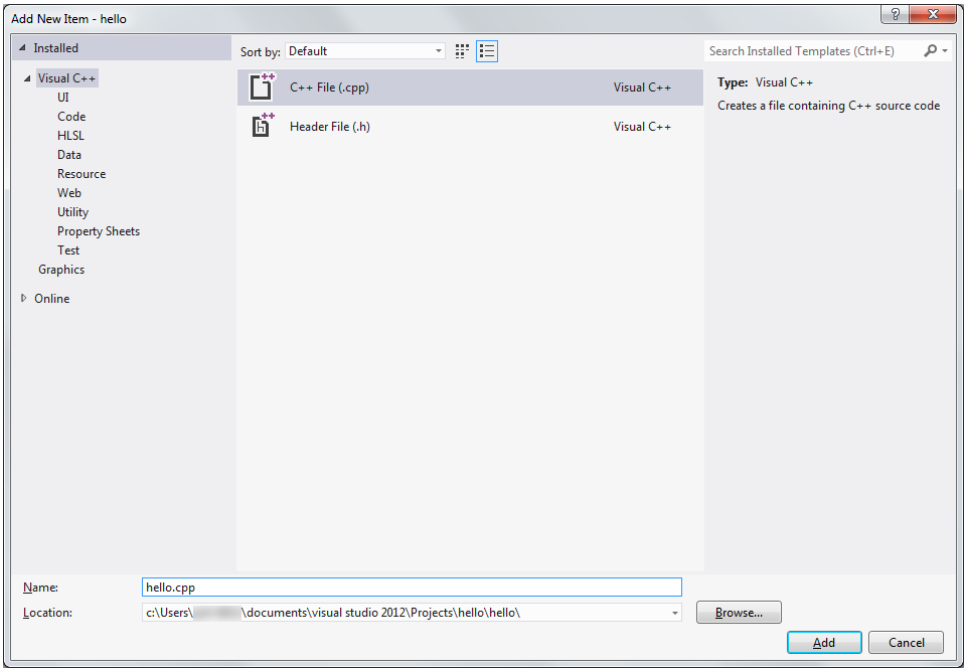
(e) In the next screen, make sure you check **Empty Project** so that a blank project is created for you. You do not want to forget this step as it will cause headaches.



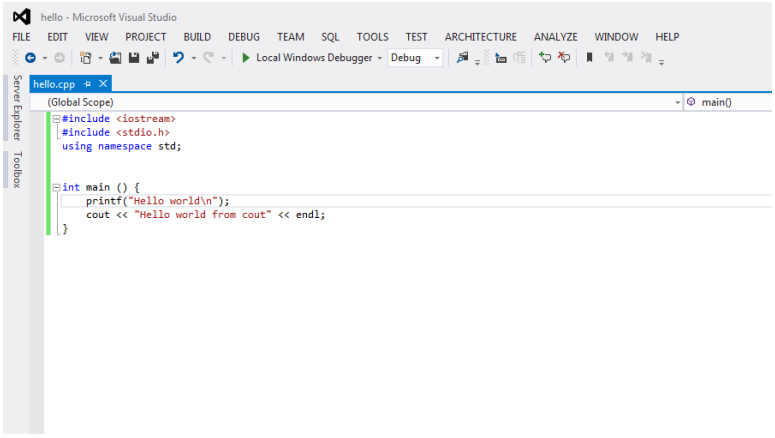
(f) Once you have this blank project, right-click on the **Source Files** icon on the right of the workspace. Click on Add → New Item.



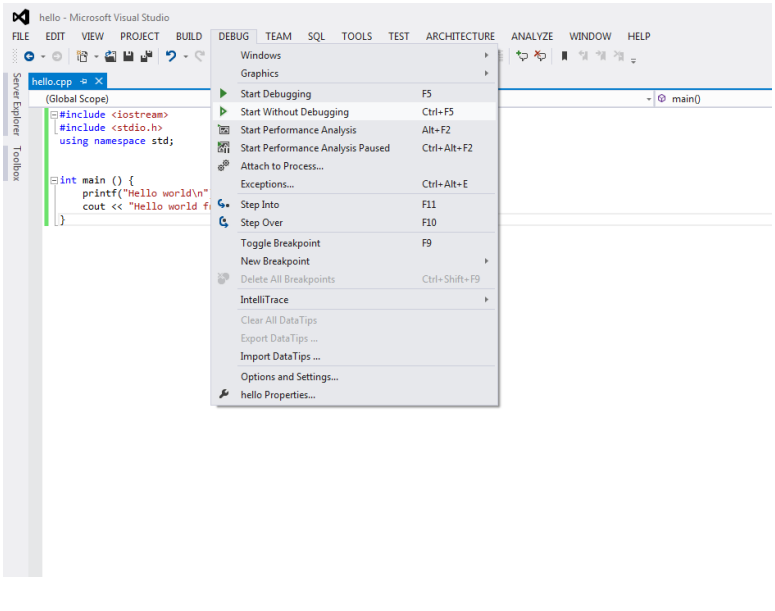
(g) Select Visual C++ on the left and then C++ File (.cpp) on the right. Give it the name **hello.cpp** at the bottom and click on Add. (Leave the location to default.)



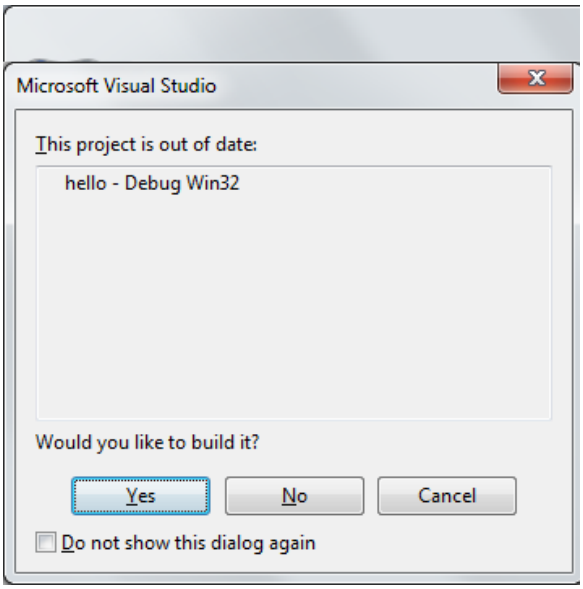
(h) You now have your hello.cpp file. Put your code in this file.



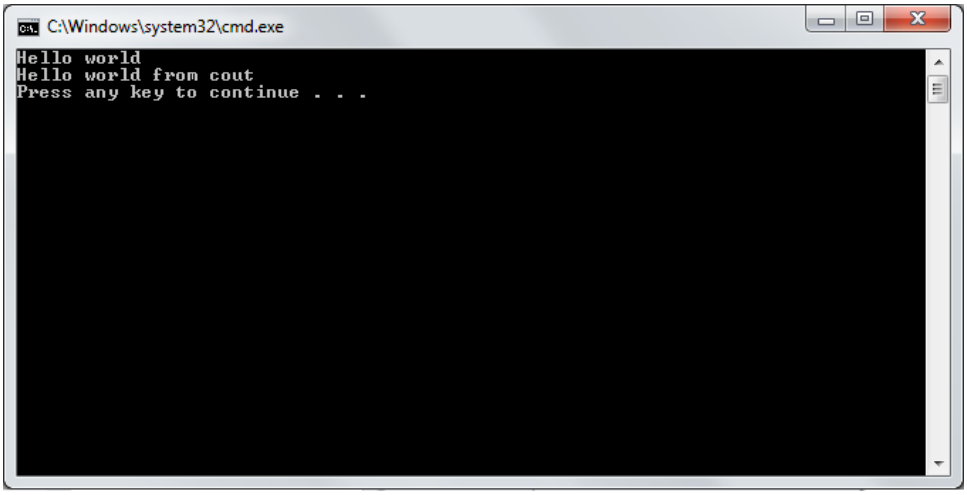
(i) For start, just put a hello world `cout` statement to make sure you have everything working properly. Then run the program by going to Debug menu → Start without debugging (or just hit Ctrl+F5).



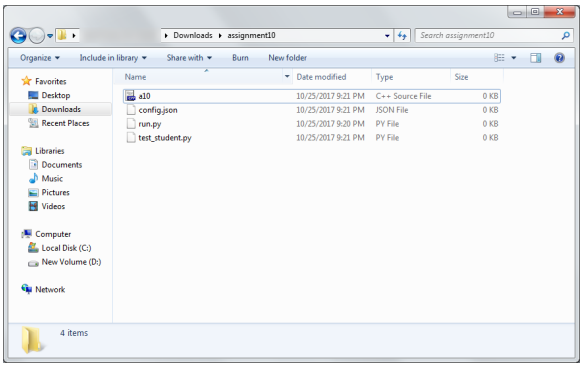
(j) If you get a pop-up telling you to rebuild, click on Yes.



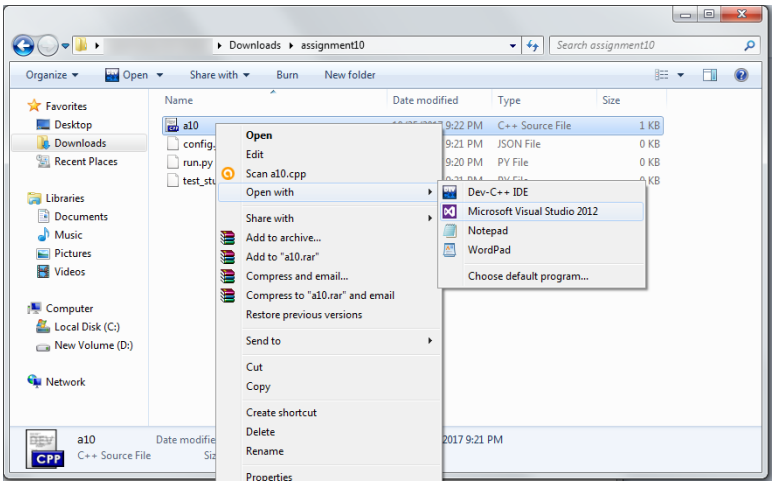
(k) You should see your output in a console window. Do **not** quit Visual Studio.



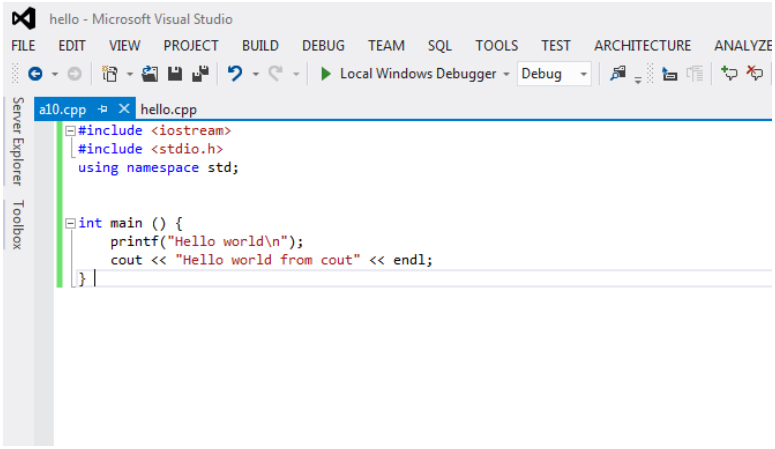
(l) For this assignment, you only need to output the two hello world lines as in the console screenshot. Once you have that, you need to submit your assignment. Open a window to the folder where you have downloaded and extracted the assignment zip file.



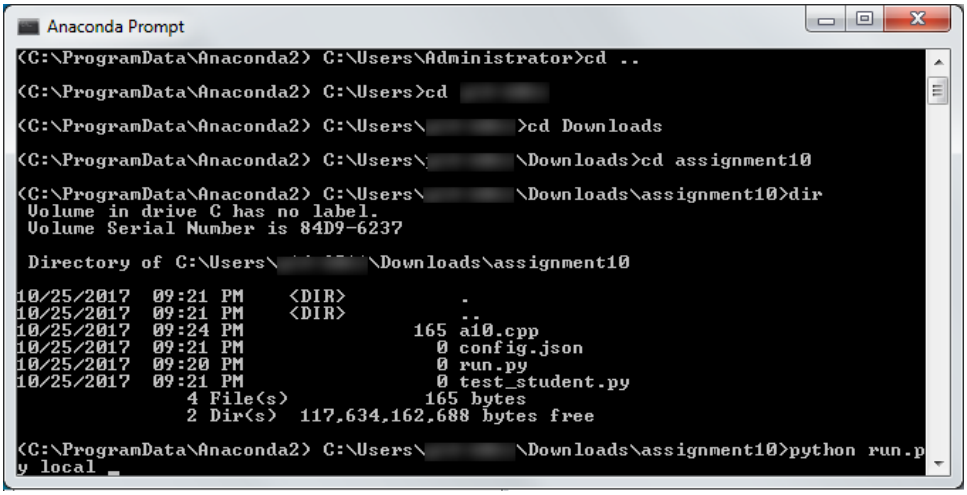
(m) The actual filename of this assignment file might be different from the screenshot but you will have a .cpp file. Right click on this CPP file and select Open With → Microsoft Visual Studio 2012.



(n) Your file should open in the VS IDE. Copy the whole code from the hello.cpp file and paste it in your assignment file (in the screenshot, it is a10.cpp).



(o) Finally, open anaconda prompt and go to the directory where the assignment files are. Run `python run.py local` for local tests and `python run.py remote` for submission as usual.



If you get an error saying g++ was not found, make sure you have installed Dev CPP IDE in its default location.