Creating an OpenCV project using Microsoft Visual Studio 2010

1. Start Microsoft Visual Studio 2010

2. Create a new application:
1. select menu "File" -> "New" -> "Project..."
2. Select "Win32 Console Application"
3. Type the project name and choose the location, then click "OK" button
4. In the wizard that appears, click Next then tick "Empty project. Click "Finish"

3. Add a file to the project:
1. Right click on "Source Files" in the left hand tree menu (Solution Explorer)
2. Select "Add" -> "New Item", then choose "C++ file"
3. type the file name and click "Add"
4. add OpenCV-related #include directives: (or copy the Skeleton code, which already includes these lines)
   #include "cv.h"
   #include "highgui.h"
5. Save the file

4. Customize project settings:
Note: This assumes your OpenCV2.4.4 library is installed in "C:\Program Files\OpenCV2.4.4\" if it is not, you will have to modify these instructions:

1. Select menu "Project" -> "Properties..."
2. Tune settings, common to both Release and Debug configurations:
   Expand "Configuration Properties" on the LHS tree view
   Select "Configuration:" -> "All Configurations" (top LHS of window)
3. Expand "C/C++", then select "General" category
4. Under "Additional Include Directories:" add the following two directories:
   C:\Program Files\OpenCV2.4.4\build\include
   C:\Program Files\OpenCV2.4.4\build\include\opencv
5. Next, expand "Linker", and select the "General" category, and under "Additional Library Directories:", add the following paths to all necessary import libraries
   C:\Program Files\OpenCV2.4.4\build\x86\vc10\lib
6. Expand "Linker" tab, then select the "Input" category, and under "Additional dependencies:", add the following libraries, separated by semicolons:
   opencv_core244d.lib
   opencv_highgui244d.lib
 (Note: older versions of OpenCV do not need the version number appended to the lib files. For example, these file names may be cxcore.lib, cv.lib and highgui.lib)
7. Click "OK".
8. Compile your program. At this point, the program should compile, but may not run

5. Add the necessary .dll files
Add the following .dll files (from the TRC3500 Moodle site) to the folder containing the executable file. This will be the "Debug" folder in your project directory
   opencv_core244d.dll
   opencv_highgui244d.dll
Your program should now run.

6. Continue to write your code.