Debugging Assignment

**Due: Sun Feb 4, 2024 11:59pm**

Ungraded, 15 Possible Points15 Points Possible

**Details**

Debugging Features

* Visual Studio:
  + Using the[Visual Studio Beginners Debugging GuideLinks to an external site.](https://www.codeproject.com/Articles/79508/Mastering-Debugging-in-Visual-Studio-A-Beginn) read from the “Introduction” through the "Immediate Window" section for the most benefit
  + Additional resource for the Watch Window [Part 6 Watch WindowLinks to an external site.](https://www.youtube.com/watch?v=t-SGKve_9GY&feature=youtu.be)
* Eclipse
  + [Debugging in eclipseLinks to an external site.](https://help.eclipse.org/luna/index.jsp?topic=%2Forg.eclipse.cdt.doc.user%2Fgetting_started%2Fcdt_w_debug.htm)
  + Additional resource [Debugging C++ in Eclipse Links to an external site.](https://www.youtube.com/watch?v=azInZkPP56Q)(note there is no sound)
* If you love Linux, the [GDB ProjectLinks to an external site.](https://www.gnu.org/software/gdb/) will interest you. If you don't know what Linux is, ask one of your best friends, and read about gdb.
  + [gdb debuggerLinks to an external site.](https://www.youtube.com/watch?v=xQ0ONbt-qPs)

Download the code [debugging\_assignment.cppLinks to an external site.](https://github.com/profruse/CIS-161/blob/master/debugging_assignment.cpp) from my github. Complete the following steps in your chosen debugger:

1. Setting a break point.
2. Adding a watch and using the watch window.
3. Using the locals or autos window.
4. A pinned data item
5. The Breakpoints window

Assignment submission artifacts:

* To your github repo, upload the debugged file
  + Add in the Comment box add the [URLLinks to an external site.](https://www.techopedia.com/definition/1352/uniform-resource-locator-url) to your github file.
* In a document (word or pdf)
  + Screenshot of Step 3
  + Screenshot of Step 4
  + Screenshot of Step 5
  + A statement declaration of what useful debugging strategy you will use the most
  + A statement describing the difference of step into and step over.

This assignment is worth 10 points. Attach your file. Do not write in the submission box. In the Comment box, add the URL to your github file.