EGRE 246 Advanced Engineering Programming Using C++
Homework #9 – State Machines – NMEA GPS sentence parsing (part 3)

<u>This homework must be your own (individual) work as defined in the course syllabus and discussed in class.</u>

In this homework, you will be provided with a simple program (Windows or Mac version) that reads single characters from the serial port (via a serial to USB converter) and displays them on the screen. You must connect this program to your implementation for Homework #8 so that the characters are sent to your NMEA GPS sentence parser.

Your program must display the information from the GPS unit in real-time, as the sentences are received. You must use the "system("cls");" command in your display method before you print out the current GPS information so that it stays at the top of the command window, as shown in class.

To receive credit for this homework assignment, you must demonstrate it to one of the TAs or the instructor using one of the provided EM-506 GPS units. The TA or instructor must sign off on your demonstration in the space below

For this homework, submit a zip file with **ALL** of your source files and a scanned version of the signoff sheet. Be sure to include a Makefile that compiles your solution.

TA or Instructor signoff: _____ Date:_____