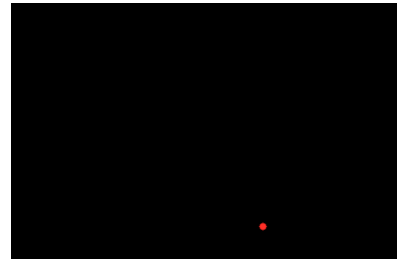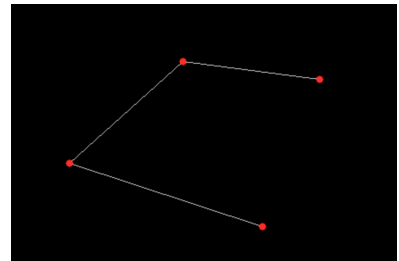CPSC 1070
Lab Project
Sept. 16 & 18, 2019

This is a two day exercise, slated to be completed by Wednesday.

In the lab this week, the goal is to give you practice building a simple user interface using EZ Draw, where the user clicks in points to form a polygon.
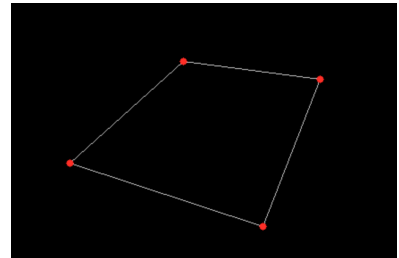
Your program should display a blank screen, and wait for a mouse left-button press. When the button is depressed, you should draw a colored dot at the mouse location that follows the mouse until the button is released. When the button is released, the dot should remain frozen in place.

Then, when the user depresses the button again, a new colored dot should be drawn, as well as a line connecting this dot with the previous dot. Again, the new dot should follow the mouse until the button is released, but now a "rubber band" line should always connect the dot with the previous one. This process should be repeatable as many times as desired to form an unbroken chain of lines.

Finally, when the user presses the 'd' key on the keyboard, the chain of lines should be closed forming a polygon. Once this happens, no new points can be entered. Note: unless at least 3 points have been entered, a polygon cannot be drawn, so the 'd' key should be ignored until at least 3 points have been entered.

Build the program, test it, and demonstrate it to your lab TA before leaving the lab. If you have not completed the lab before you leave on Wednesday, zip it like a homework assignment, and turn it in using the handin directory https://handin.cs.clemson.edu/courses/ for your lab section, under polygon. It must be turned in by Friday evening. Nothing will be accepted after Friday.