CS 0401 Fall 2015
Snapshots demonstrating functionality required for Assig5.java and MyPoly.java
**Read this document very carefully so you know what is necessary in your implementations.**

Note 1: These snapshots demonstrate only the original functionality of Assig5.java (and MyPoly.java). To see the requirements for the enhanced functionality required of Assig5B.java (and MyPoly.java, see also handout A5Bsnap.htm.
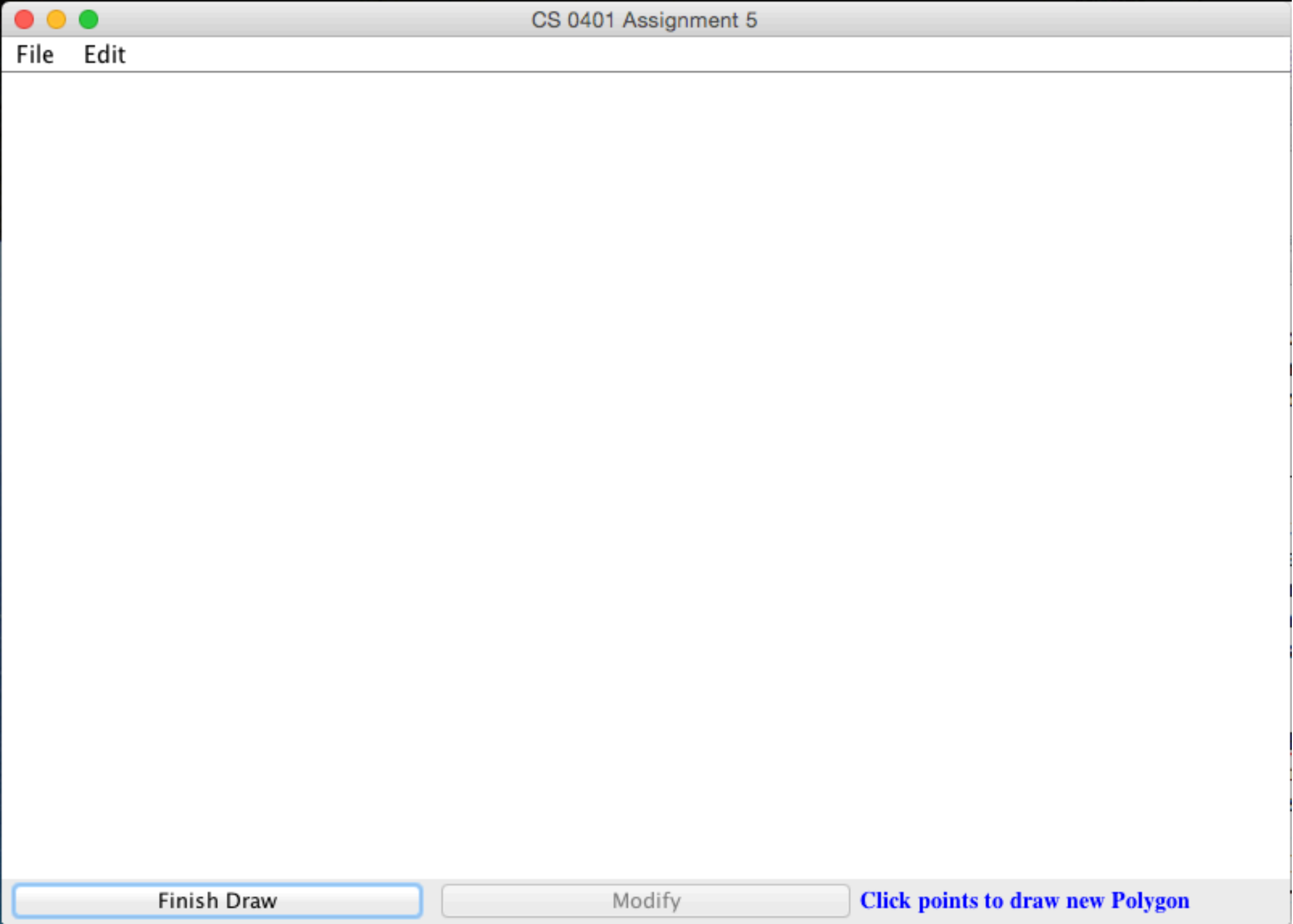
Note 2: This document does not necessarily demonstrate all Assignment 5 requirements. Please see the Assignment 5 document for details on the assignment requirements.
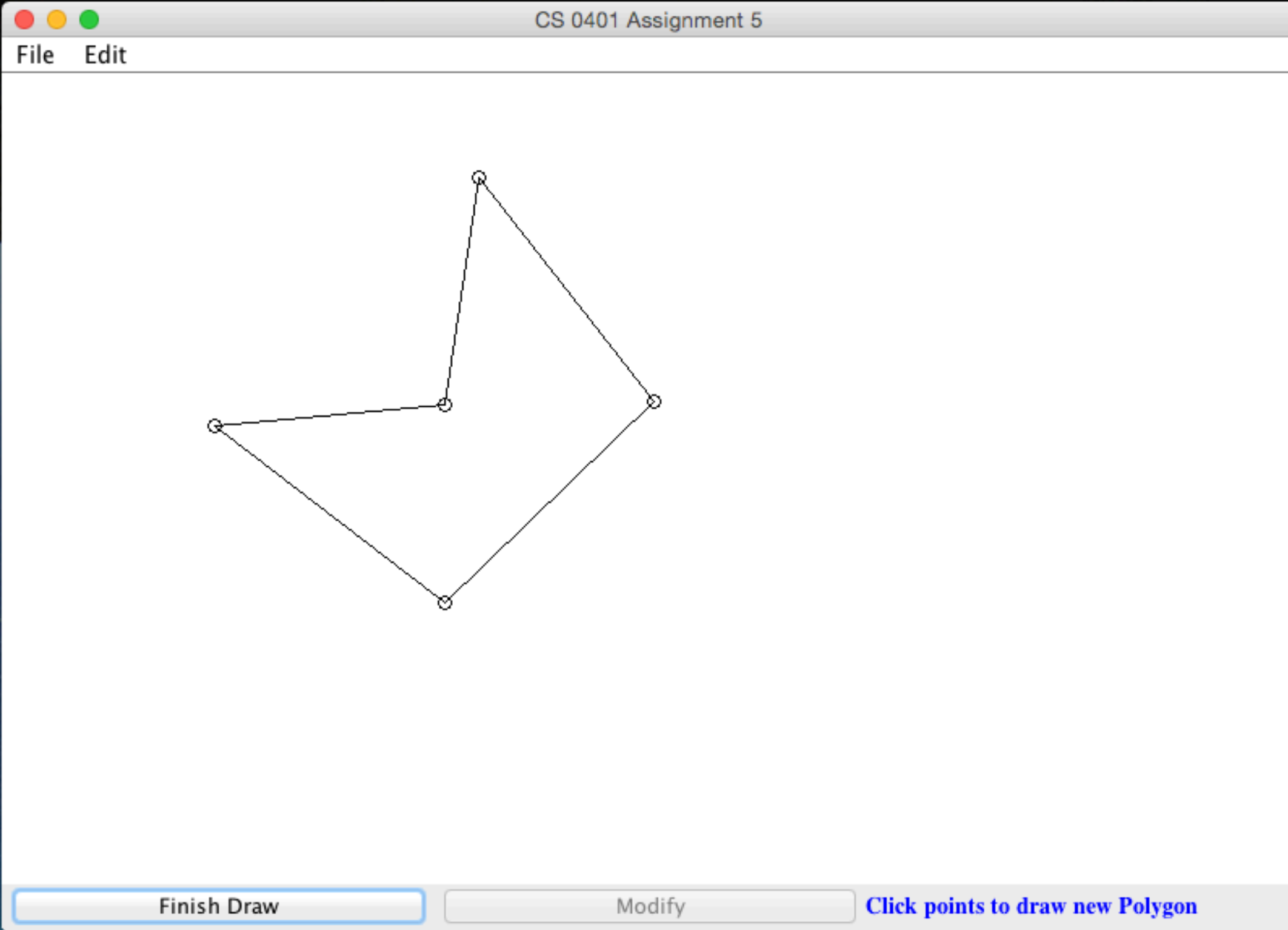

Assig5 Snapshots
### (Assig5.java as given with your implementation of MyPoly.java)
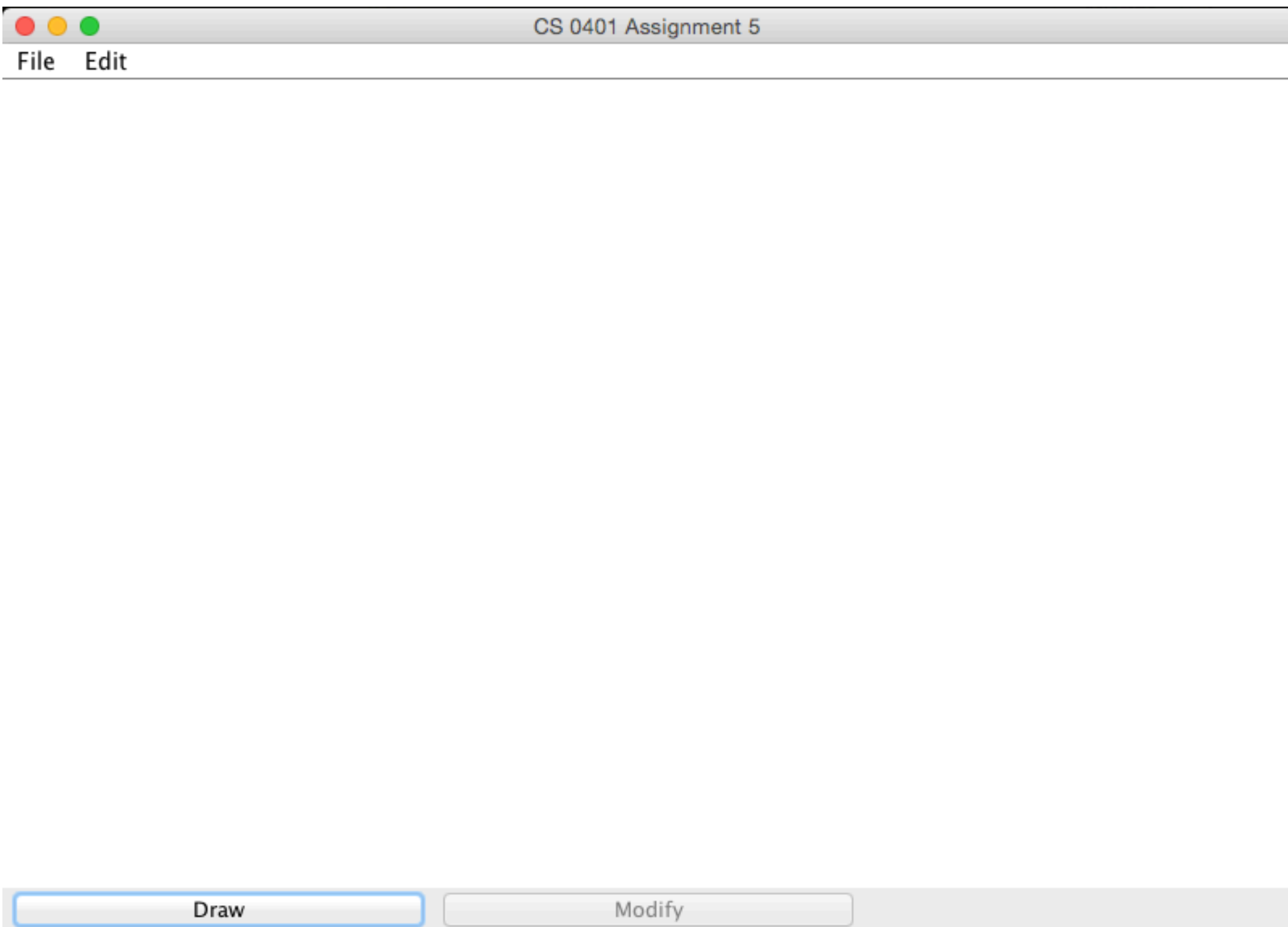
Initial window shown when program is invoked.

File   Edit

| Finish Draw | Modify | **Click points to draw new Polygon** |

Draw button has been clicked. At this point no MyPoly objects exist but the "canvas" is set for the user to draw one.

File   Edit

Finish Draw   Modify   **Click points to draw new Polygon**

Some points have been drawn and the outline of the new MyPoly is shown in the panel. We could add an indefinite number of points in this way.
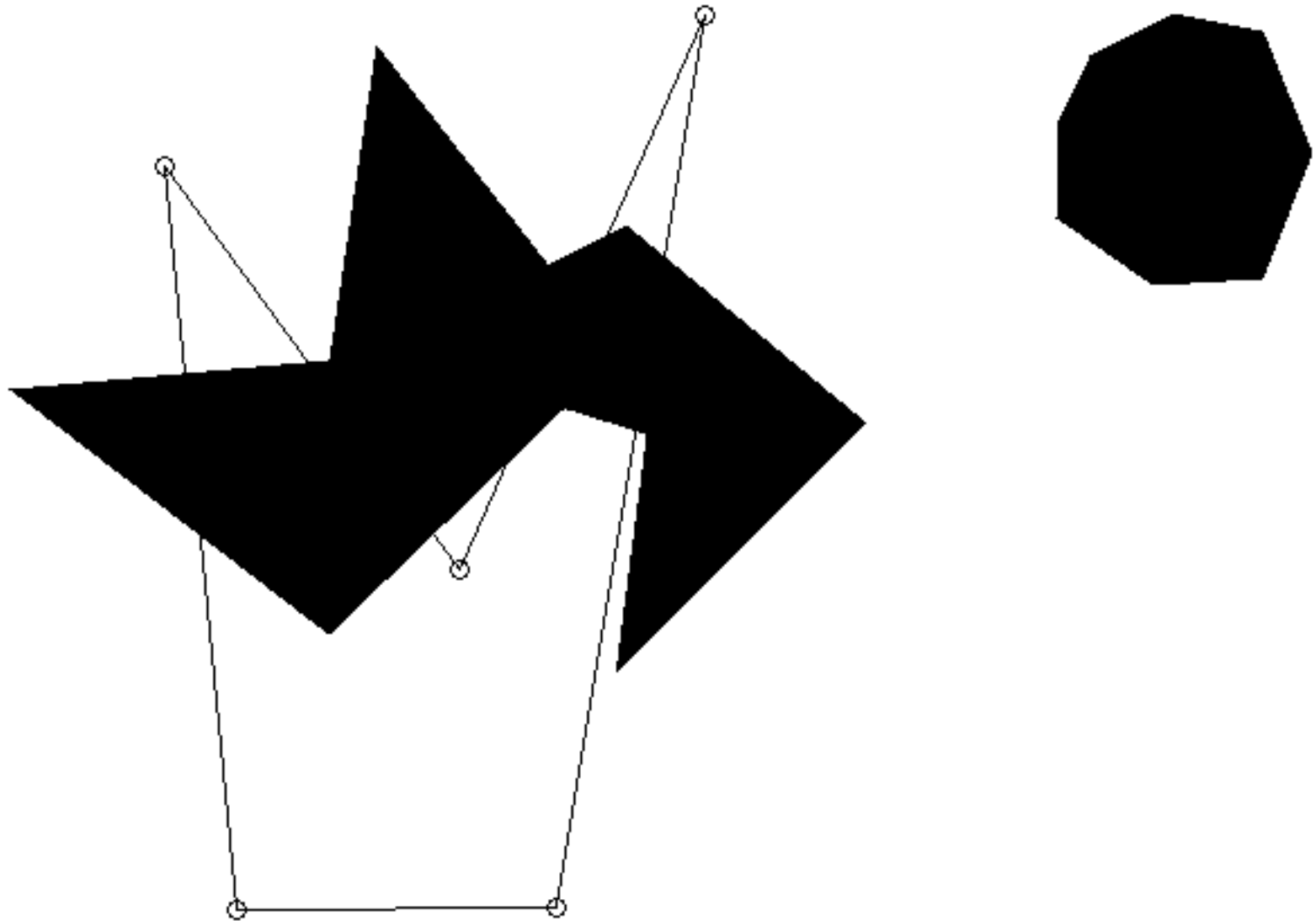
File   Edit

| Draw | Modify |
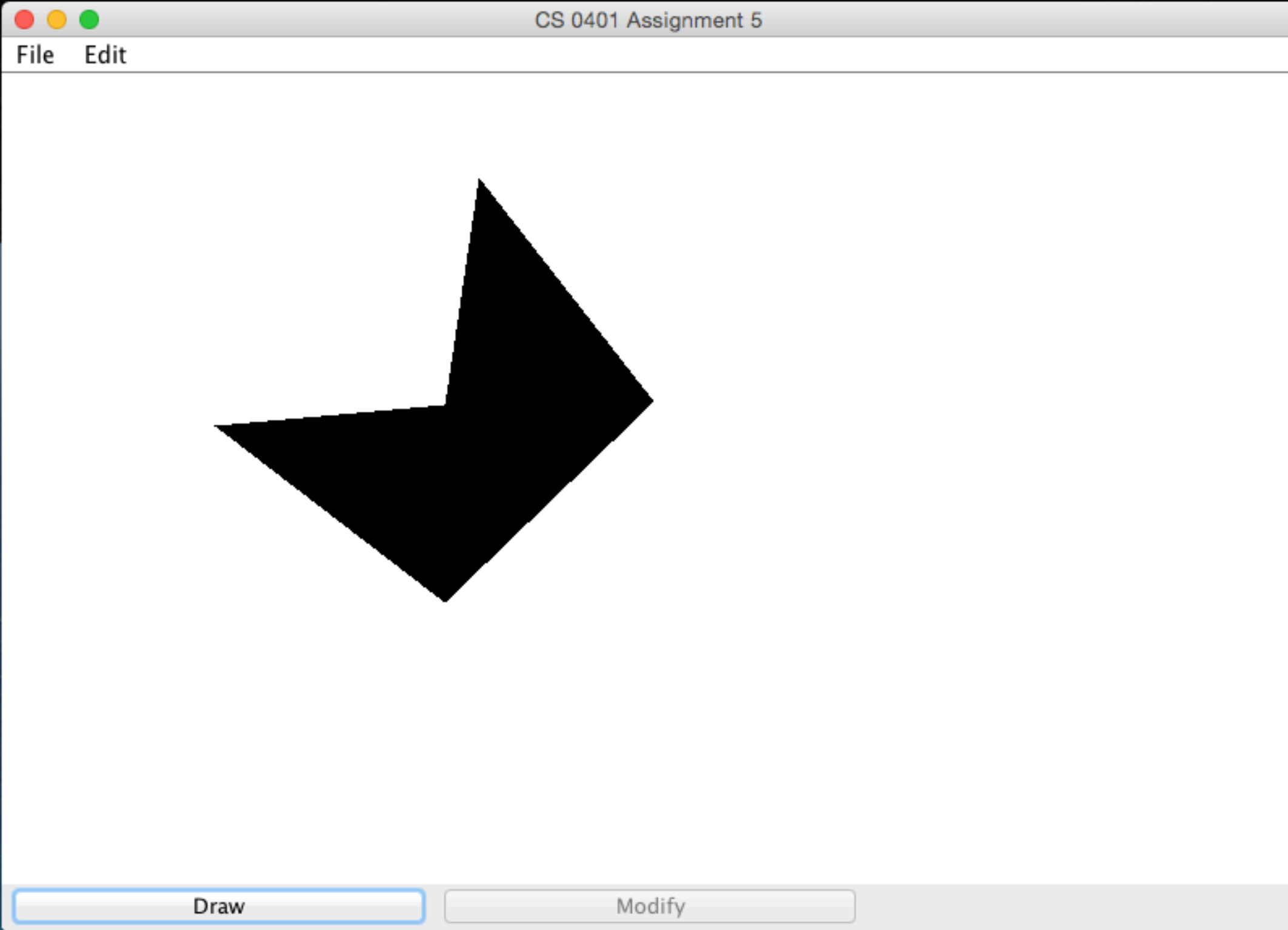
The Draw button has been clicked again and the MyPoly is now shown filled in rather than as an outline. Note that the Draw button is back to its original state.

File   Edit
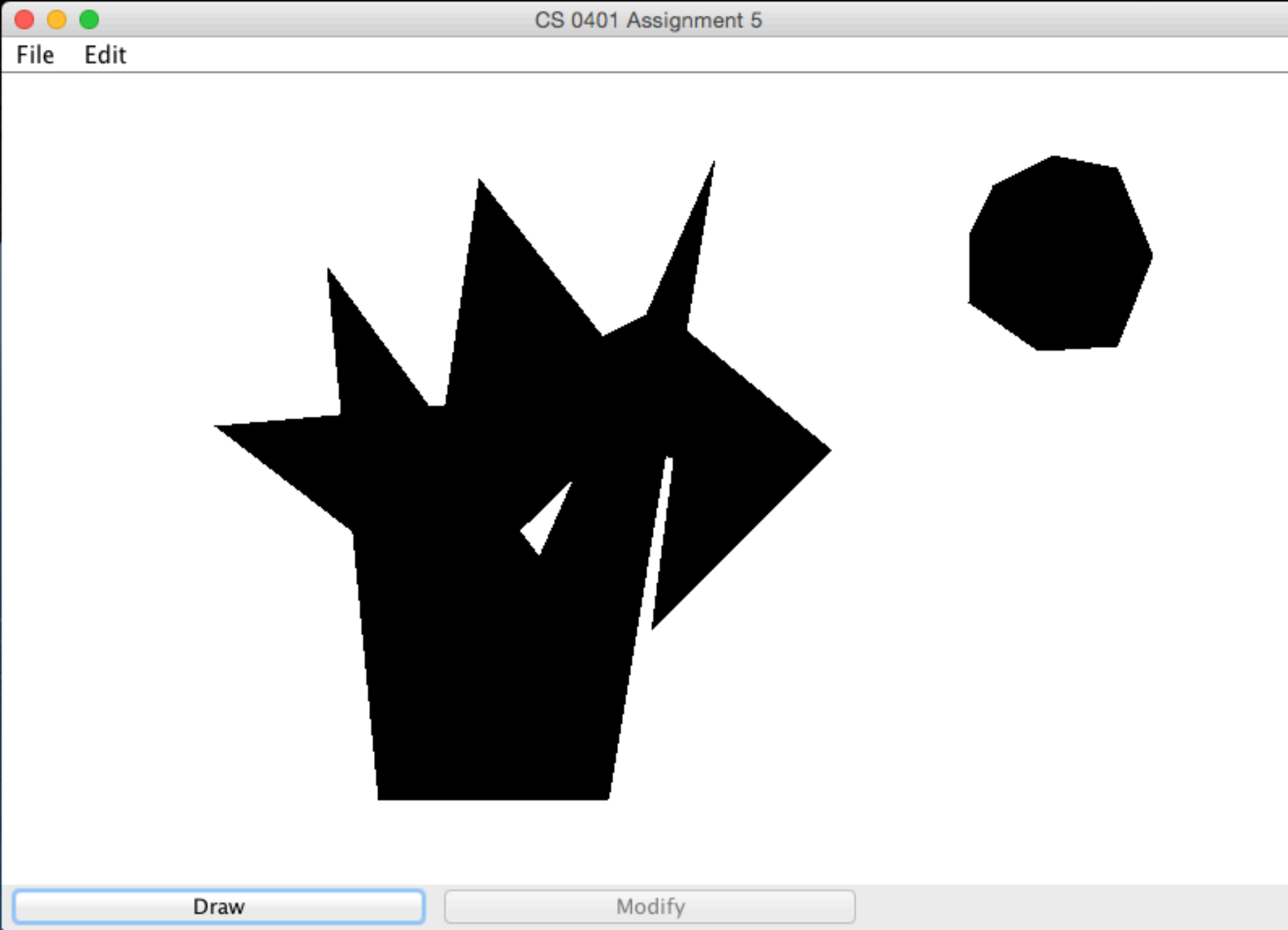
Draw   Modify

Three more objects have been drawn. Note that they are all the default black color and when they overlap it is difficult to see their boundaries.

File   Edit

Draw   Modify   **Selected outline shown. Drag to move.**

Clicking on a MyPoly will select it and show it as an outline with the individual points being shown. At this point it could be dragged to move it or it could be modified if the user clicks on the Modify button. Also, the Edit menu buttons will now also be enabled. See details on each of these below. Note that successive clicks on an intersection of the shapes will select each in turn in a circular fashion.
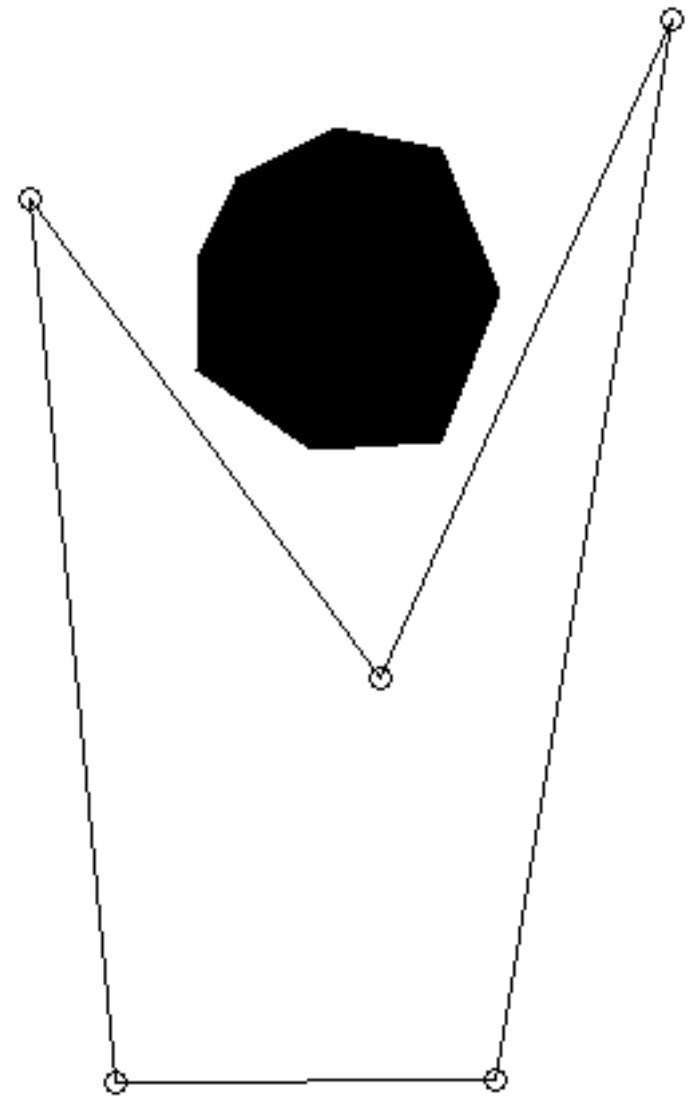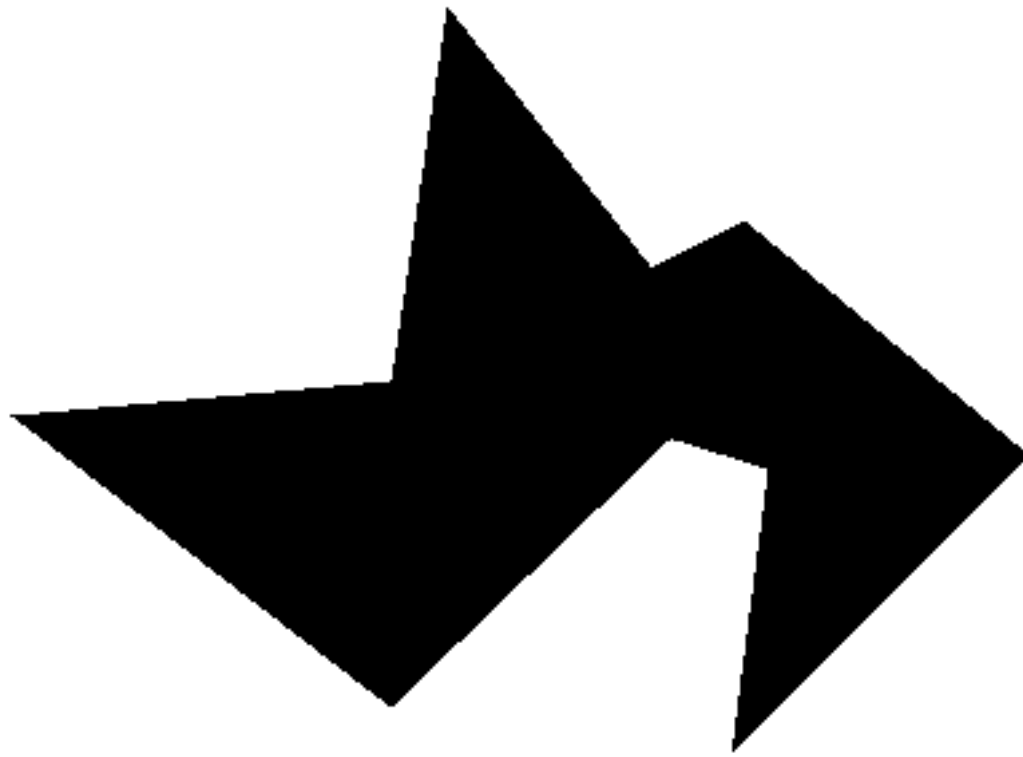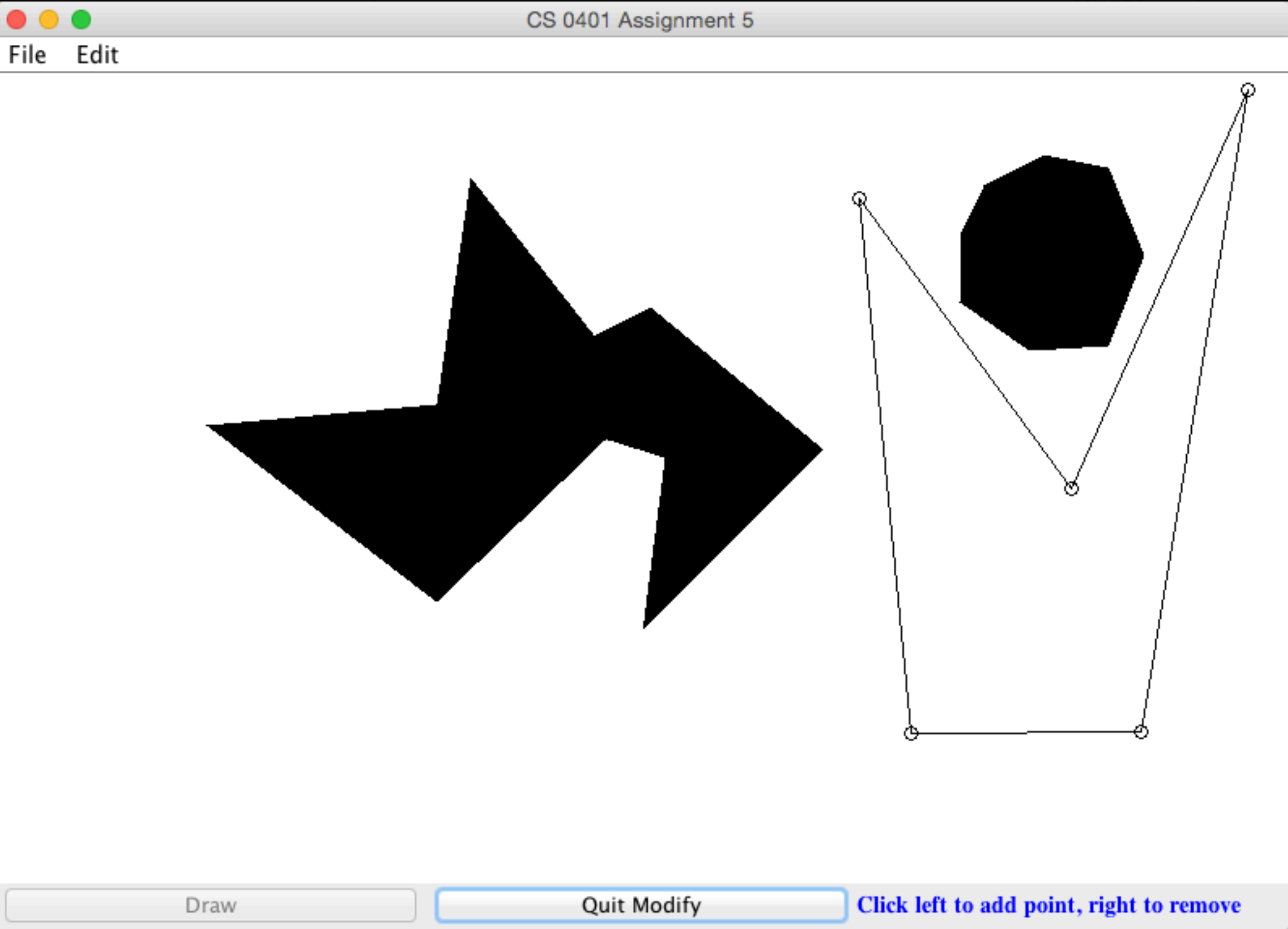
Shape has now been moved by dragging the mouse. Note that it is still selected after the move, so it could be move multiple times as long as the user continues to click within the same MyPoly object.

File   Edit

Draw | Quit Modify | **Click left to add point, right to remove**

Now the panel is in "modify" mode. This should have the following behavior: 1) A left click will add a new point between the two points closest to that point. The distance is calculated using some predefined methods in the Java Line2D.Double class. I have done some of this work for you in method getClosest() in MyPoly.java. However, you will need to write the code to build the new MyPoly taking into account the new point. See the MyPoly.java code and Assig5.java code for some guidance with this. Also see Assig5.java for the actual syntax necessary in your MyPoly class. 2) A right click within one of the "point" circles will delete that point from the selected MyPoly. 3) A right click that is not within any "point" circle will have no effect on the selected MyPoly. If a right click removes that last point from a MyPoly then it is removed from the list of shapes. For help with 2) and 3) see Assig5.java and MyPoly.java.
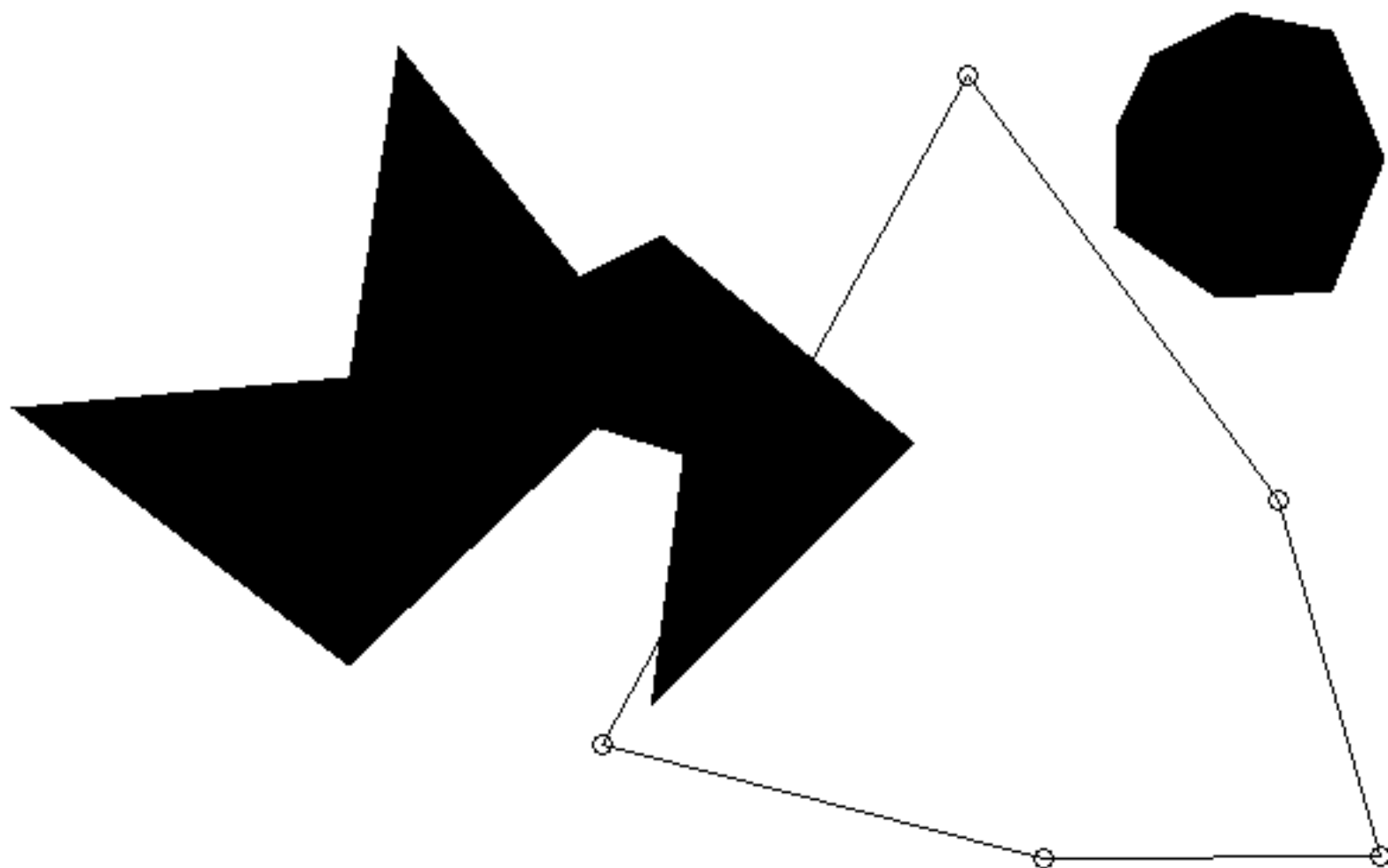
File   Edit
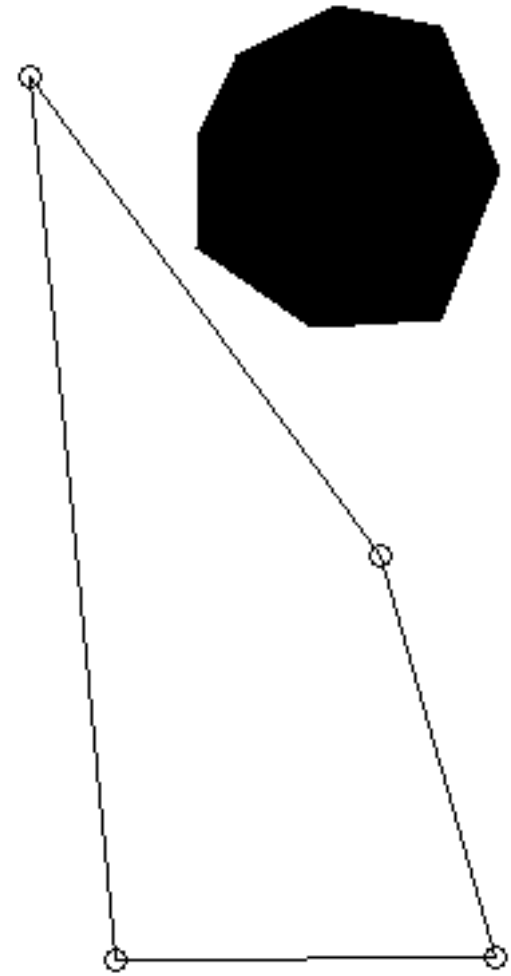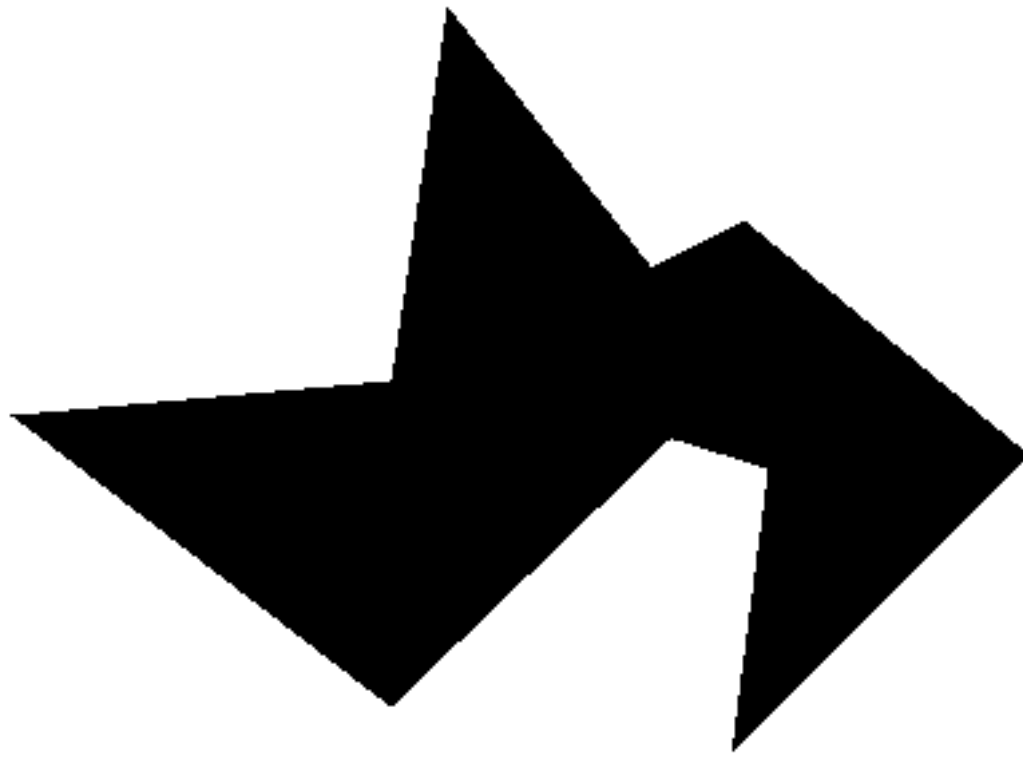
Draw

Quit Modify

Click left to add point, right to remove
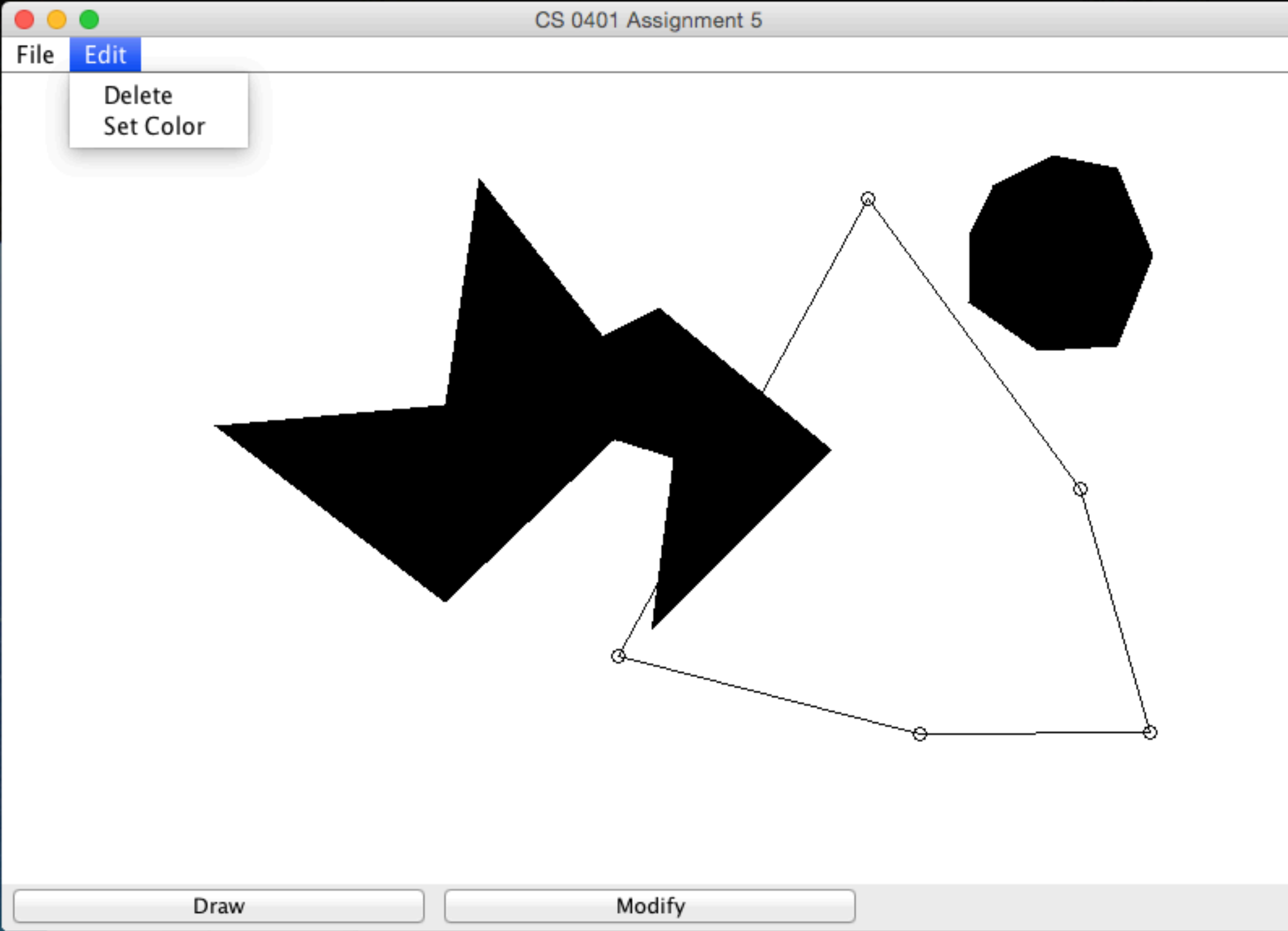
Top right point removed.

File   Edit
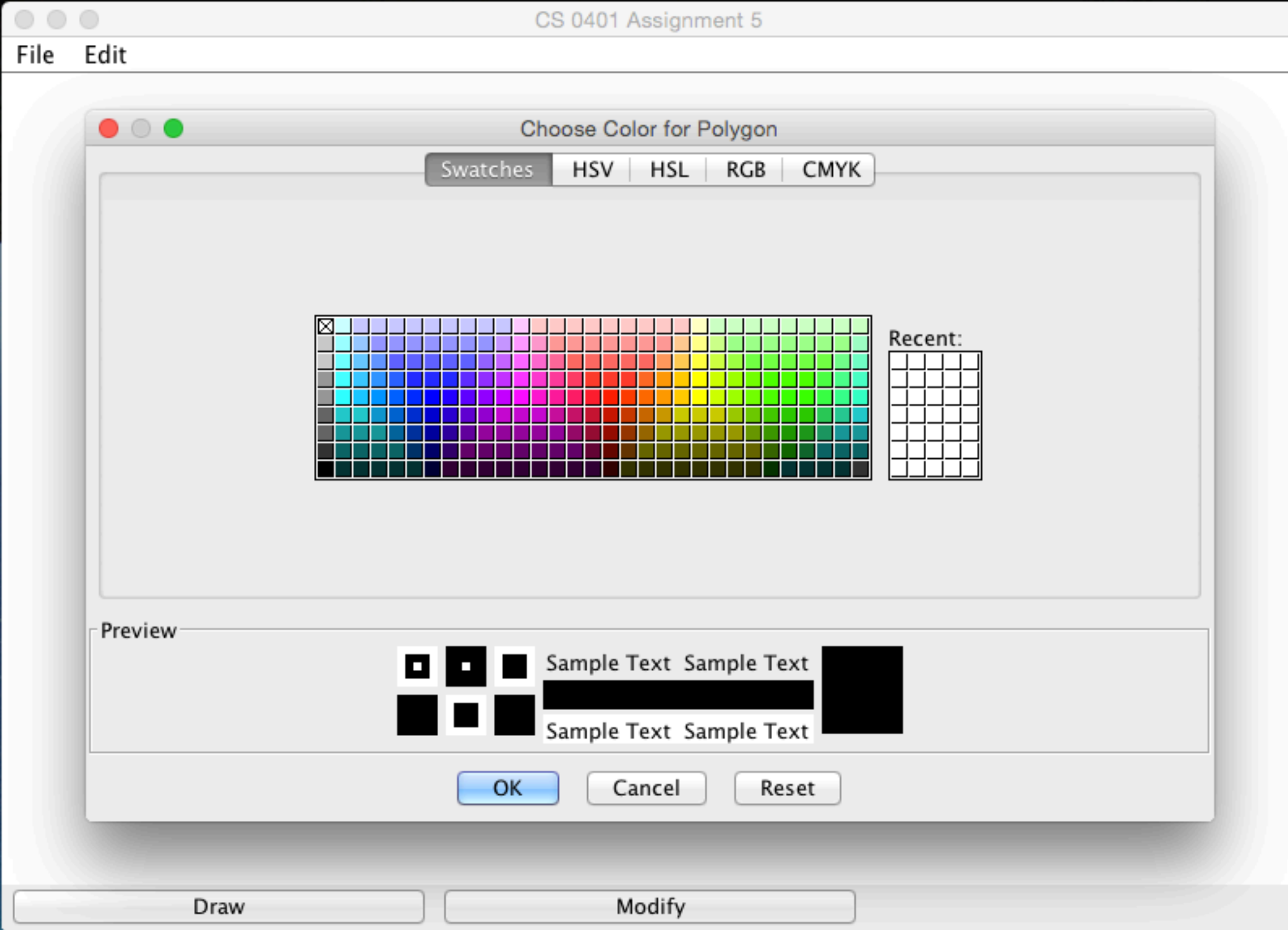

Draw   Quit Modify   **Click left to add point, right to remove**
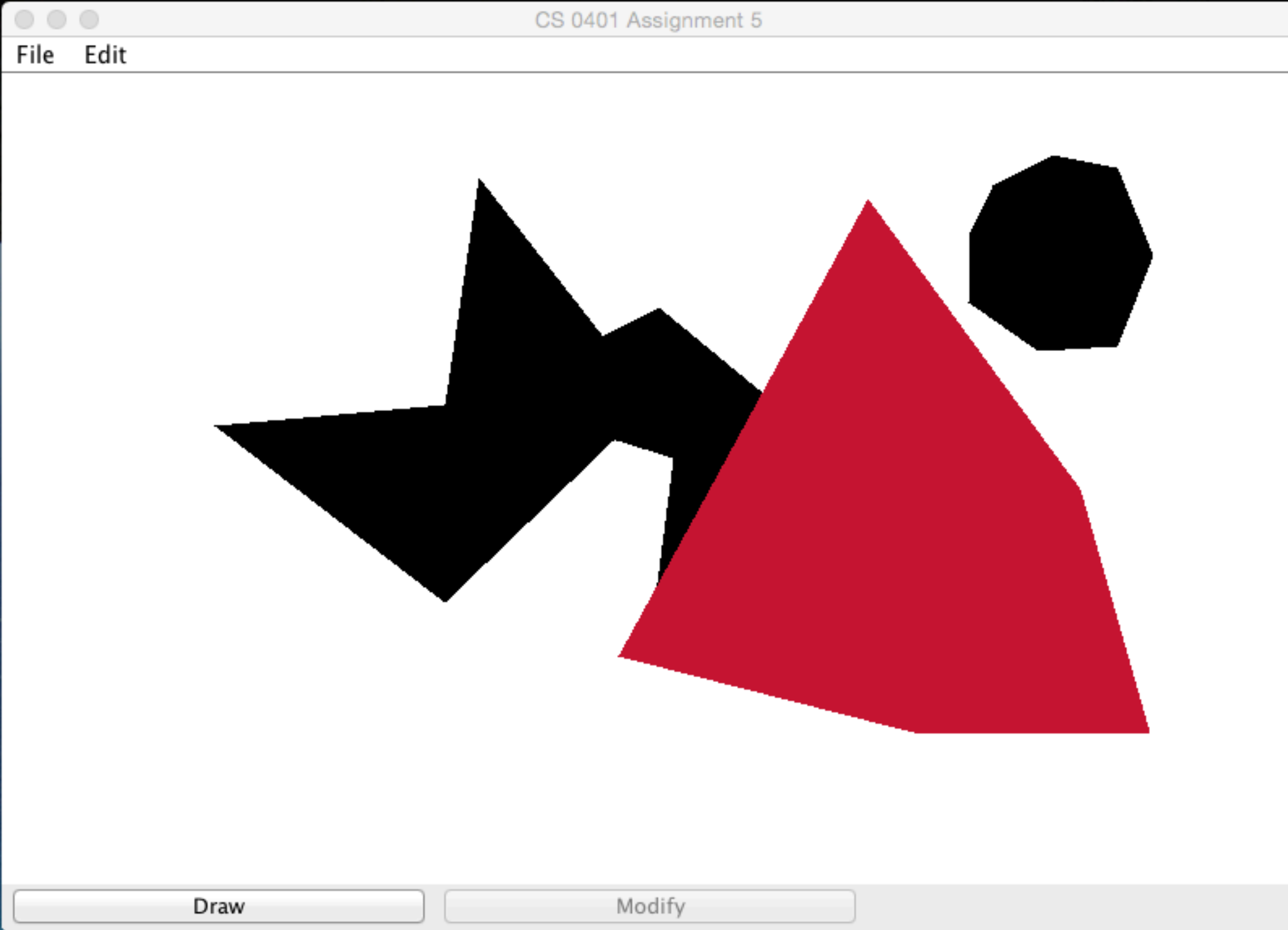
Point added on left side.

File   Edit

Delete
Set Color

Draw   Modify

Quit Modify clicked and Edit Menu clicked.

File   Edit

Choose Color for Polygon

Swatches   HSV   HSL   RGB   CMYK

Recent:

Preview

Sample Text   Sample Text

Sample Text   Sample Text

OK   Cancel   Reset

Draw   Modify

Set Color menu option chosen, and JColorChooser is opened.

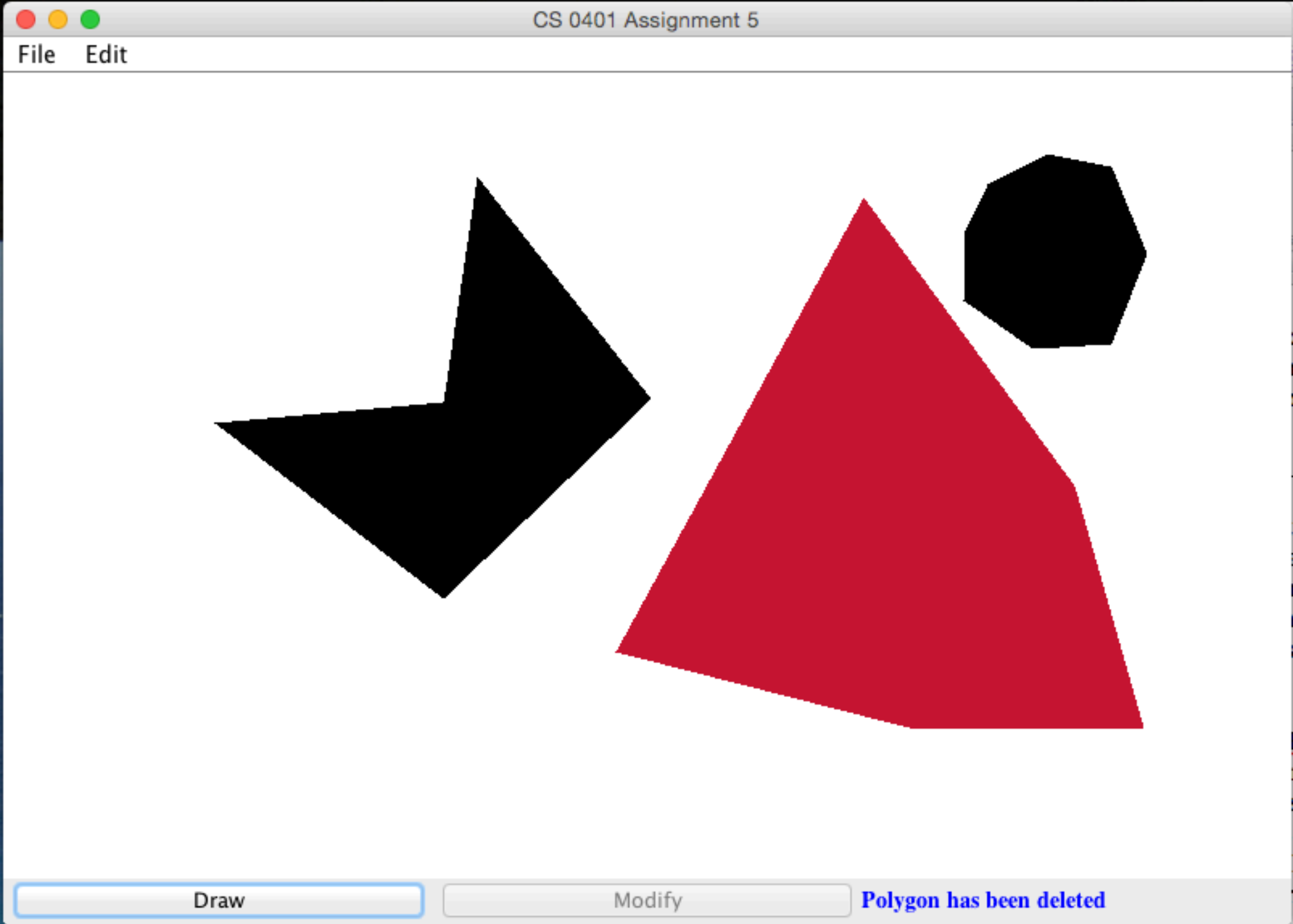File   Edit

Draw   Modify

New color chosen and then the mouse is clicked outside of the selected shape. This unselects the MyPoly and it is shown filled rather than in outline.
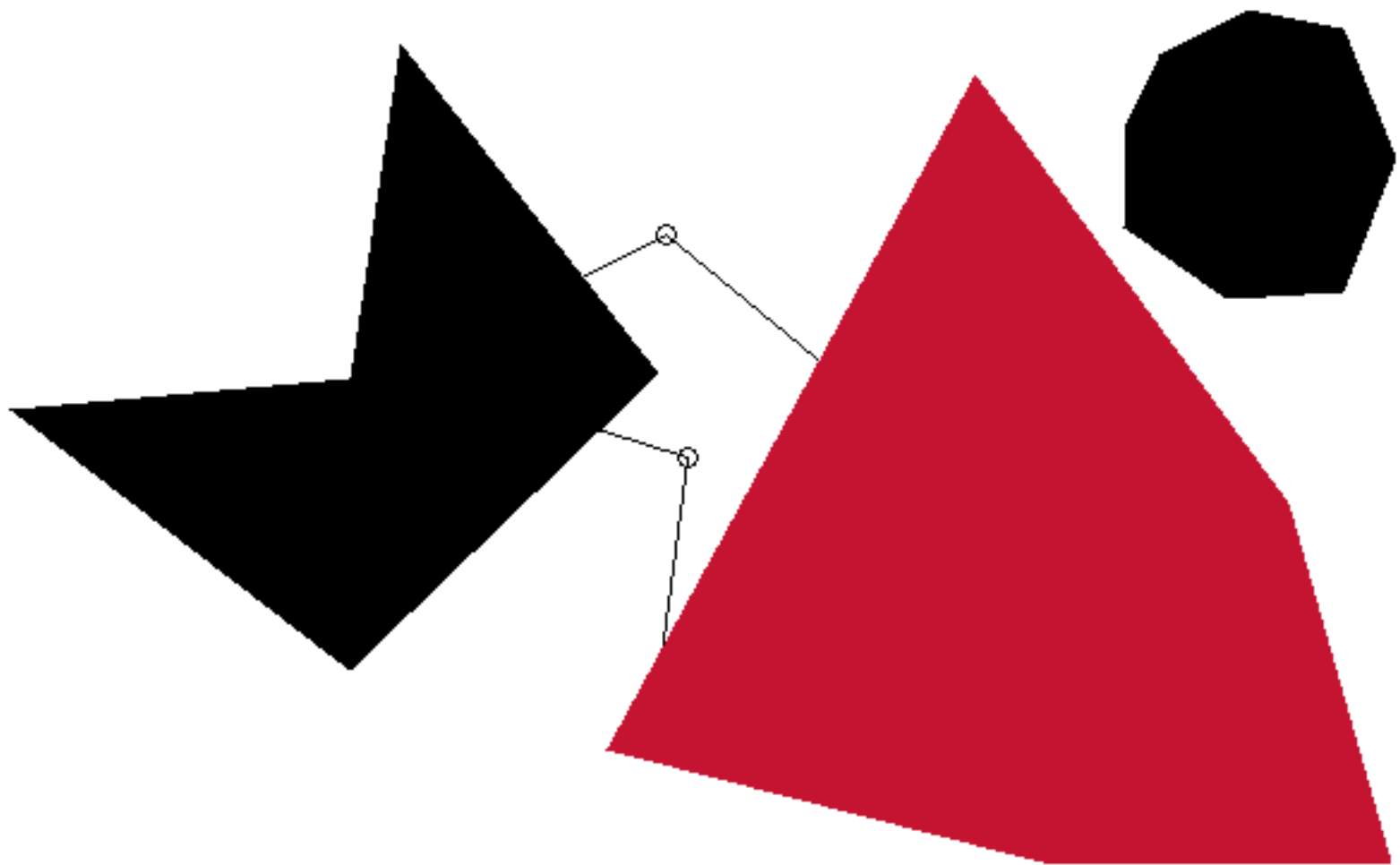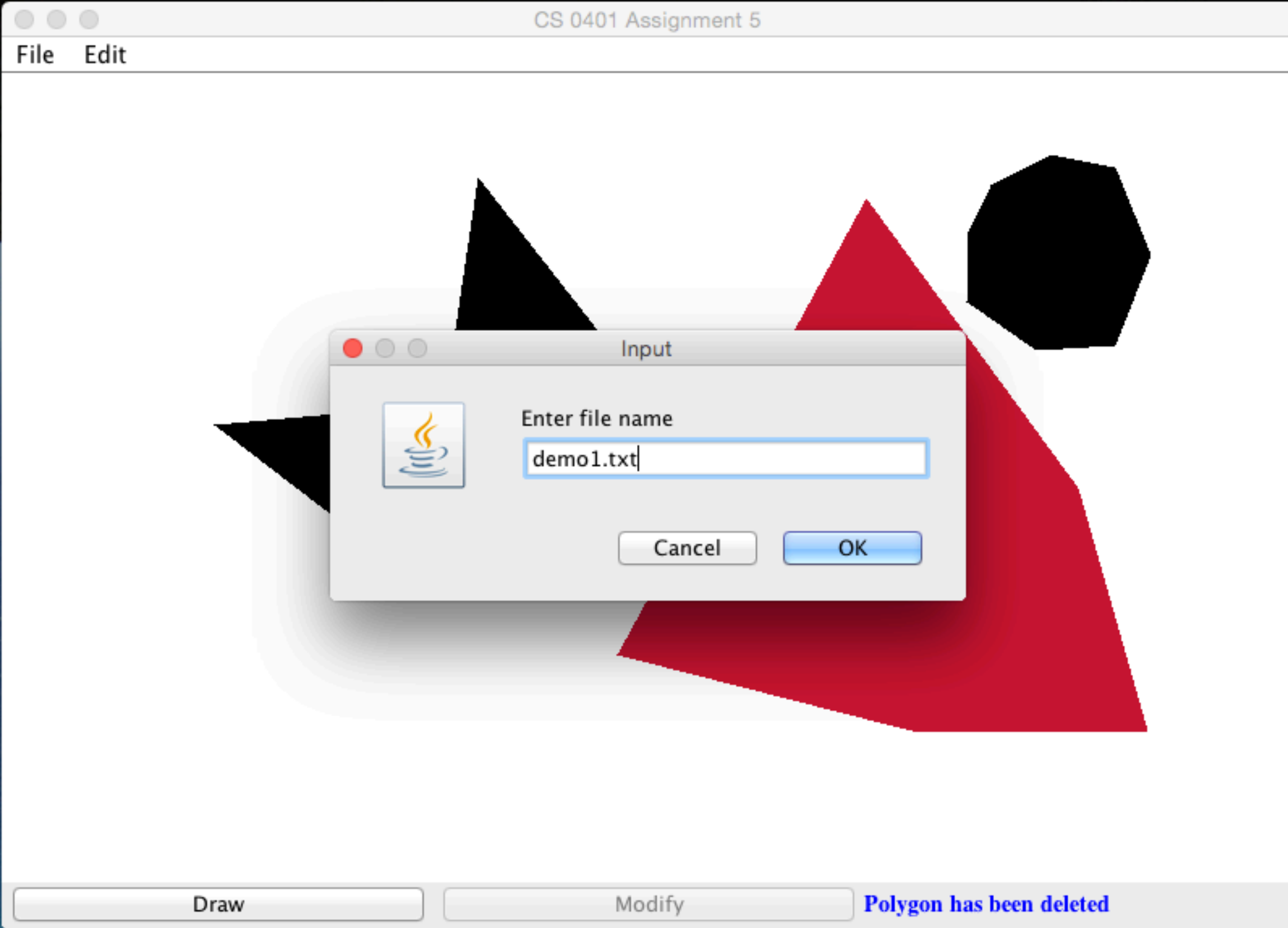
File   Edit

Draw   Modify   **Selected outline shown. Drag to move.**

Another shape is selected and then deleted using the Delete option in the Edit menu.

File   Edit

Draw   Modify   **Polygon has been deleted**

User saves the scene using the File / Save menu option. The format of the saved file is shown below.

demo1.txt

```
3
131,217:273,326:402,202:294,64:273,204|0,0,0
534,77:380,359:566,407:708,406:665,256|204,0,51
611,69:597,98:596,141:639,171:688,168:710,112:688,58:648,50|0,0,0
```

Note the format of this file. The first line is the number of MyPoly objects in the list. Each of the successive lines is the details of one of the MyPoly objects. Note the two parts to each line (separated by the vertical bar). The first part is the (x,y) points within the MyPoly (separated by colons). The second part is the (r, g, b) color for the MyPoly. Both of these are necessary to identify the MyPoly and to allow it to be restored later. This program does not have an "Open" or "Restore" option, but you will need to add this in Assig5B. For more details on saving the file, see the saveImages() method in Assig5.java.

There is no image here because the File / Exit menu item has been clicked. This closes the program.