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Subject: experience
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Throughout these introductory assignments we leveraged Python 3 to process command line arguments, parse and manipulate json, create a basic GUI, and build a TCP server. Although there was some growing pains at the beginning having to work entirely remotely, we were able to finish the assignments relatively painlessly. As each assignment was meant to introduce us to a different area of our programming language and we both had experience with Python 3, we were able to quickly get the desired output. The one exception to this was attempting to register the click within the hexagon, as neither of us had used Tkinter before. We ended up brainstorming ways to calculate if a point was within a given polygons points but eventually found an easy way to calculate that with matplotlib. We found out later in the code review that there was a much easier way to do this with Tkinter tags, which will surely be helpful in the future.

Although we were able to get the basic functionality quickly on our local machines, we initially had some problems getting that same functionality on the student servers. We were surprised to see that we were unable to use pip to install any dependencies on those machines but thankfully found a workaround on piazza. We also had a lot of trouble trying to get the GUI working on the Khoury servers having to switch to Python 2 and trying to use X forwarding. Eventually all of these problems were resolved and got the final assignment to run on the Khoury servers immediately. I think we now have a handle on how to work within the environment and hopefully won't have to spend so much time troubleshooting in the future.