# Homework 2

With the exception of number 3, below, you must complete this assignment *without searching online*. You can use our class recordings, the textbook up to the current chapter, conversations with your colleagues and me, and the approved resources listed in Blackboard; that’s all.

1. While I won’t ask you to run Jupyter notebooks with me during class—it’s better if you follow along with what I’m doing and take your own notes, rather than fiddling with software on your own machine—I need to know that you’re able to run them *after* class, to use for reference. So let’s practice! Run **my\_first\_jupyter\_notebook.ipynb** in Jupyter notebook (or Jupyter lab). *You do not have to understand what the code is doing yet!* Just tell me (in a Word doc): what is the output of the code?
2. Run **dice.py** using either the command line or Spyder. In the same Word doc, tell me: what is the output of the code?
3. A crucial concept in data science studies is “reproducibility,” which helps others (and you!) reproduce your results. To answer this question, you should use CCAC’s library and the internet to research the idea of reproducibility. List some best practices to achieve reproducible results in scientific studies and data analyses; be sure to discuss the part that Jupyter notebooks can play in reproducibility. Please, feel free to use bullet points rather than long paragraphs. Also, I don’t expect formal (APA, MLA, etc.) citations, but I want to see
   1. a list of sources with enough information to find them (links if they’re online, title/author if you use printed materials) and
   2. at least three different sources used/listed.
4. Explain, in your own words, the difference between an absolute and a relative path.
5. Read chapter 2 of the textbook. **Bring any questions about it to class next week!**