Please submit your solutions to the following problems on Gradescope by **6pm** on the due date. Collaboration is encouraged, however, you must write up your solutions individually.

1) Final Project Proposal. Select a *method* or *problem* to study for your final project, following the guidelines on the course repository. Please submit a two paragraph proposal that includes:

(a) A brief description of your topic, identifying a method or problem of choice (in plain language, no math needed unless you find it helpful). You may want to include your own motivation for choosing this topic.

(b) Three peer-reviewed resources that can serve as a starting point for your self-study. These could be a textbook, a monograph, a review article in a reputable journal, etc. Informal resources such as blogs and online forums will *not* be counted.

(c) A preliminary description of a problem (if you are focusing on a method) or a method (if you are focusing on a problem) that you can use for the "application" requirement in your report, with an explanation of your choice. For example, "why is this problem suitable for your method of focus?"