Individual Assignment. Each week you will be asked to do some form of reflective writing (similar to journaling) related to topics in the course. Each reflective writing assignment will ask you to consider your experiences, beliefs, and/or thoughts regarding one or more specific topics (posed as questions). Your writing must be concise but thoughtful. In particular, your written answers should fit within a single written page (concise), while still demonstrating that you have put serious consideration and reflection into the questions (thoughtful). Your writing will be evaluated on the following criteria as appropriate for the assignment.

| Complete | all questions are fully answered |
| Concise  | writing is short, to the point, and free of “fluff” |
| Quality  | writing is clear, logical, and organized |
| Connected| writing shows understanding of topics and connections to own experiences |
| Personal | writing shows evidence of meaningful self reflection and analysis |

This week, you must answer the following questions.

1. Reflect on your past experiences working within a team setting. Considering your own contributions to the team, what would you say you did well and what are things that you did not do as well as you could? How do you think both of these impacted the team? In what ways do you think you need or want to improve in regards to your teamwork skills?

2. Describe your experiences developing software. For example, what is the largest software application that you have written or contributed to? Is your experience solely through coursework, or have you worked on side-projects and/or professionally (e.g., through an internship or other position)? What went smoothly for you (or your team) and what was challenging for you in developing the application?

3. What do you envision the process of software development to be like in industry? In particular, pick a well-known company and describe how you think they might carry out the process of developing a new software product. Consider all aspects of the process from starting a project, through development, to deployment. What steps do you think are performed through the process and how do you think they manage the process (to ensure they are successful)?

Submit your answers by creating a Google Doc with the title `<lastname>-<firstname>-491-homework`—where `<lastname>` and `<firstname>` are replaced by your lastname and firstname, respectively—and by sharing it with me (using my smbowers@gmail.com address). Your document must have a header with the homework number, your name, and the date, e.g.:
Homeowrk 1  
Poly Morphism  
8/30/2018  

1. ... Answer to question 1 ...  
2. ... Answer to question 2 ...  
3. ... Answer to question 3 ...  

In this example, the name of the doc would be morphism-poly-491-homework (assuming the student’s name is Poly Morphism).

**Team Assignment.** The following should be completed within your senior design team. Please turn in a single printed document with answers to the following question in class on the due date.

1. Next Wednesday will be the first CEDE meeting with your sponsor and DAB member. Since this is the first time you will be meeting with your project sponsor, you should use this as an opportunity to collect information to help you get started on the project. As such, you must develop a set of questions as a team that you will ask at the meeting and that are specific to your project. You should first brainstorm as a team the questions you might ask (you should come up with 20 or more questions). Then, based on the brainstormed list, select the top five questions you plan on asking at the CEDE meeting. In your discussions at the meeting try to gain a better understanding of the users, requirements, and constraints of the system you are to build (e.g., who will be using it, how they will be using it, who you can talk to that is a potential user, whether there are specific languages, tools, APIs, systems you will need to use or integrate with, what the bigger vision is of the product, what the sponsor hopes to achieve by developing the product, and so on). Turn in a copy of both the big list of brainstormed questions and the final list of the top-5 questions you plan to ask.

2. Set up a GitHub repository/project for your senior design team. The purpose of the repository is for document sharing between team members, sponsors, faculty advisors, and DAB members. Note that the repository may need to be private depending on your project, which you should check with your sponsor at next Wednesday’s meeting.

3. To get started on your project, you should start doing background research. Possible areas of research could be related to learning a new technology or programming language, learning about the application domain, exploring similar products/solutions\(^1\), comparing possible

\(^1\)Note that you will need to explore similar solutions as part of your project plan.
development frameworks and APIs, looking at and trying out related systems, and so on. You should also briefly discuss your thoughts on areas of research you need to explore with your faculty advisor to get their feedback. For this part of the assignment, you must turn in the research tasks your team explored for the week as well as the findings from each task. The tasks should be described in terms of their desired products/outcomes. For example, “download and implement a simple program using the XYZ library” or “create a list of the major features of the ABC product”. Each team member should do at least one research task as well as write up their findings (to be turned in by the team). Thus, for this part, your team will turn in the tasks, how the tasks were split up, and the findings for each task. Note that dividing the research tasks among team members helps to spread out the work so that the team can be more efficient and productive.