Homework 5:

1. **Identify your pair programming partner:**

   Shraddha Gabani

2. **Identify the user story you implemented alone:**

   US01-Date (Birth, Divorce, Death, Marriage) before current

3. **Describe your experience working alone on the user story: how long did it take to implement and test the story:**

   I have implemented US01- Date (Birth, Divorce, Death, Marriage) before current alone. First, to implement a logic to build my code, I have to understand the description of story. At initial stage, it is very difficult to understand what exactly story is about. After understanding the story, I started to build my code step-by-step, which takes approximately, 2 hours. And I took 1 hour to implement different test cases to test the code. Total I took 3 hours to complete one user story. At the end, I realize that it takes more time to implement one story compare to pair programming.

4. **Describe your experience working with a pair programming partner on the other user story: how long did it take to implement and test the story?**

   We implemented US02-Birth before marriage in pair. I would like to implement this user story with a partner. As we have very essential and effective bonding which help to us a lot to complete this user story. We have multiple ideas and logic to build-up the code. And where I got an error, she has an appropriate solution, and where she confused, I will try my best to figure it out. Also, we got appreciation and feedback from each other which encourage us to do work more precisely. Having a partner, it takes only 1.5 hours with implementation of different test case, which simply means it takes half time compare to done by individual.

5. **Describe the advantages and disadvantages for you and your teammate while pair programming. What worked well and what didn't work well?**

   Advantages:

   - Main key point of pair programming is it consumes less time to complete given task. As we both are support to each other and share our ideas and knowledge about the task, which helps a lot to build a code for task rapidly.
   - Also, two brains are work on a single track which improves the work quality as well as work efficiency.

- Due to pair programming chances of coding mistakes are less, as two heads are on one code. And we will try to resolve each other problems, which results in perfect output.

Disadvantages:

- As we have more ideas and logic on a single user story, it is difficult to make decision about build-up the code.
- Also, due to two different thoughts on single plate conflict may occur, which impacts to the efficiency of code.
- Time convenience is also main drawback of the pair programming.

Overall, it worked well, to build-up the code, find solution for error, get some new knowledge and trick to resolve problems. But it is difficult to choose to build up logic among various options and time convenience is also big wall for us.

6. **Would you recommend pair programming? Why or why not?**

I would recommend pair programming because:

- Take less time to complete specific task
- It helps to enhance communication as well as interpersonal skills
- Pair programming is the essential and effective path to share some knowledge.
- There are less chance of error or coding mistake as four eyes observe the code.
- It helps to learn new and different way of learning
- It helps to find best and appropriate solution for the problems
- It also leads improved team morale.

7. **Will you use pair programming on future GEDCOM user stories? Why or why not?**

No, I never use pair programming on future for GEDCOM user stories. As pair programming is more beneficial for big tasks or big projects. If I use pair programming for this type of small user stories, it is waste of resources and time. Also, if both partners have same skills then it is worthless to do in pair. It is more convenient to do alone rather than in pair. Hence, I would recommend pair programming for large chaos, but for small use stories I will not use pair programming.