1. Defining the problem

My Client is a manager of a swimming club. She also helps the front desk to answer questions and schedule lessons. Students are put into different slots by their possible time and day of the week and their level. Usually, they would use paper in a special form to keep track of all the session schedules, but the problem with their printed paper is that they could only have one copy. The schedule is made by day, time, and level. Thus, they need to find the right place by looking at multiple factors. All the staffs have to wait for that one piece of paper because all students name needs to be on the same paper to make sure that there is no error on the schedule. However, there are still a lot of mistakes made in the schedule.

She told me about this problem before, so when I had to plan for this project, I thought of solving her problem by transforming all the information on the computer, so that all the teachers can see the changes when it is updated online. The teachers and staffs could check the new document on the computer to have the right schedule. The staffs could also waste lesser time to put them in the document.

2. Rationale for solution

I decided to choose this as the best solution for my client because their main problem is they need more access than just one piece of paper, and they need to put people in quicker so other people continue doing their work. The solution I thought of can let them spend less time to enter the information and update the information and everyone can see it on their own device without sharing. I didn't choose to make a window because although it might be more user-friendly, it would work slower, and it would use more steps to complete the entire process. Java is a suitable language for solving this problem because the GUI is easy to code and it could have the program have a better user experience.

3. Criteria for success
- The program adds a new student to the text file with details
- The program adds student to the schedule
- The program generate a new schedule based on the information of all the students
- The program save the schedule to a txt file

Word count: 392