The goal of this project is to demonstrate the six different scheduling algorithms from the textbook. Unlike the previous projects, this time I am better prepared and had a good understanding on how each of the scheduling algorithms worked. This gave me a good confident start when beginning the project. I did have a few issues getting started on the project because I needed to get Java to run on visual studio code. I encountered quite a few issues, one of which being a FileNotFountException that I learned how to fix after searching around on Google for a while. I also had to relearn how to run command line arguments through java, how to compile java files, and how run java class files through command prompt. I’m quite surprised that I managed to fix all these problems in the beginning by myself because usually I have trouble with this. Once I began implementing my functions, I realized how hard it is to actually code the scheduling algorithm compared to understanding it. Implementing a queue is what I tried at first, but I have a problem getting the minimum index of the values when enqueueing to get the correct order for printing results. I ended up creating a helper function to get the index of the smallest value in the array thinking it would most likely be necessary for all the six functions.

I was able to complete FCFS easily and quickly compared to the rest of the scheduling algorithms. Round robin specifically took a lot of time, I had to go over the most basic steps in my head of how the scheduling worked to make sure the program was doing exactly what I wanted. SPN, FB, and HRRN were also relatively simple to implement, they did not take much effort, just a lot of time. I was stuck on SRT for a very long time trying to debug my code. I think I should learn how to properly debug code using Java on Visual Studio Code (VSC). I only recently started using Java on VSC so I think that would help me tremendously to learn that skill. At the end when I needed to print out the output for all the scheduling algorithms at once, I realized that I had to create 6 copies of each array because Java uses pass by value and I edit the service times in each scheduling algorithm to print.