For this artifact I took my final project from IT 145: Foundation in Application Development which I took over a year ago. The final was an optional choice to make either an authentication system or a monitoring system for a zoo in Java. I choose at the time to do the first option. For this artifact I decided to add the second option to my code as well therefore containing both the authentication and the monitoring system.

When adding in the monitoring system it involved a lot of while and if statements. This meant I needed to pay very close attention to what was needed in each one and what needed to follow directly after it. I also needed to implement a dialog box which was the first time I had done that with code. I felt that by adding in the monitoring system it showed that I was able to enhance my code beyond the original final and also showcase some new skills I was able to develop.

I was definitely able to meet the course objectives I had planned on which was to demonstrate the ability to design and evaluate computing solutions that solve a given problem using algorithmic principles and computer science practices and standards appropriate to its solution, while managing the trade-offs involved in design choices. I feel that my code definitely showed this.

One of the things I learned while doing this enhancement was that I need to really plan things out in greater detail. I had written down my simple pseudocode but it actually needed to be more than that as I was coding and was running into simple errors. I also ran into other errors that I couldn’t understand and after searching on the internet I would find that I needed to use a completely different function in order for it to do what I wanted it to do. I feel also that I have learned a lot about the Scanner function and how important it is to use nextLine() after nextInt(). That really messed me up in my first artifact until I realized it!