4-2 Milestone Three: Enhancement Two: Algorithms and Data Structure

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**Narrative**:

1. This artifact is a clock time program that takes variables set manually for the time for both the 12-hour clock as well as the 24-hour clock. It would then print those times out both the 12-hour and 24-hour and then allow the user to input choices to increase the hour, minute, or second values to adjust the time as needed. This was one of the first coding assignment I completed as part of the computer science program.
2. I included this artifact within my ePortfolio as it would be a great representation of what code I provided early on in the program and what adjustments I can complete to improve the code this far into the program. I wanted to illustrate how I can adjust the code to take the local time of the user and automatically show that time rather than use preset variables that are entered statically. Then the user can adjust the time from the automated time, or they can enter a time manually to adjust at their convenience.
3. I believe I was able to complete the outcomes that I have planned out and more. The data input has improved as the time is obtained automatically and I was able to illustrate the accurate times as the inputs are received by the user.
4. I was able to learn how to properly obtain the local time safely as I did run into issues using localtime variables that Visual Studio did not approve of. I was able to research different methods that could be used and then properly deployed those methods to obtain the data I was intending to use.