1. **Briefly describe the artifact. What is it? When was it created?**

The artifact used for this milestone is the CS320 ContactServiceTest program. This program was created in November 2024 as a contact management system. The primary functionality is to store contact information and manage/search contacts.

1. **Justify the inclusion of the artifact in your ePortfolio. Why did you select this item? What specific components of the artifact showcase your skills and abilities in algorithms and data structure? How was the artifact improved?**

I selected this item because it is a good metric to demonstrate my improvements with algorithms and data structures. Specifically, I was able to demonstrate my ability to use more advanced data structures by implementing a HashMap structure, and my ability to improve upon previously written algorithms to make them more efficient.

1. **Did you meet the course outcomes you planned to meet with this enhancement in Module One? Do you have any updates to your outcome-coverage plans?**

I met my planned course outcomes with this enhancement. I believe I could implement even more advanced search features at some point; however, this enhancement already demonstrates my abilities.

1. **Reflect on the process of enhancing and modifying the artifact. What did you learn as you were creating it and improving it? What challenges did you face?**

Through enhancing the artifact, I learned more about better programming habits, and I learned that in just 10 months, I have passively improved my programming ability much more than I originally thought. The main challenge I faced was eliminating redundancy, as this was something I hadn’t dealt with much before. However ,I was able to reduce redundant code and make the program more efficient.