What is one program you wrote that you were particularly proud of during this course? Why were you proud? Explain.

One program I wrote that I was particularly proud of in this course was my physics calculator that I did for the final project. Lists can be tricky for me but I didn’t let that deter me from choosing a program that manipulated them quite a bit. I also was proud I found a way to have the program identify which variable was missing and solve for it. It would have been far easier to have a selector that chose what variable to solve for and called the correct function, but I decided to challenge myself and was successful!

How might you use the skills you learned in this course in the future? This might include skills such as programming, problem-solving, debugging, etc.

The most clear use of these skills is a future job. Additionally, knowing how to problem-solve can help me in other programming languages, or even other disciplines. Identifying a problem, replicating the problem, hypothesizing a solution, implementing the solution, and testing the solution are good problem-solving steps, not only in programming but also in life: putting together furniture; budgeting; and creating positive habits.

Describe an experience from this class that has given you confidence that you can learn new programming skills in the future.

So far, most of programming has been fairly intuitive to me. However, lists are difficult for me. Conceptually, they make sense, but nearly every time I go to iterate through them, I end up running into more issues than any other concept. There were a few times in this course, especially during the final project, where I needed to iterate through a list and was struggling to get my program to cooperate. I did a lot of research about how loops work and different ways to write code. I also spent lots of time in trial and error. Eventually, I was able to get it to work! This shows me that if I persevere, I will be able to improve and eventually master difficult programming skills.