Team Members:

Leslye Morales

Grace Crawford

William Rittenhouse

**Release Three Contributions**

GitHub Link: <https://github.com/leslmora/Software1_Project>

* You can find all the code needed as well as the report, under the folder called Release3 on GitHub.

Grace’s Contribution:

For release three my group was not able to meet in person due to covid-19. To counter this, I created a Microsoft teams group so that we could do group video/audio calls to complete the release. For our first teams meeting we used this time to figure out which design patterns we were going to implement into our design. Will found the Null design pattern and really wanted to work and complete it himself. Because of this, Leslye and I told him that if he did have any questions or ran into any problems then he could ask us for help. That left one pattern left for Leslye and I to do. We at first decided on the command pattern. However, we did not fully grasp the content of how to implement the pattern into our code. I began looking for another pattern that I understood better. I then came across the composite pattern. From there, Leslye and I did more research on the pattern and began implementing it into our code. I was a able to create a new class called return that took care of creating the new variables and setting them to the array I created. Leslye and I then worked on the main together getting everything to run properly. Thus, completing release three.

Leslye’s Contribution:

Since the world is going through a tough situation, me and my team members had to meet online to decide what we wanted to do. Our group only has three members so we decided to split the work so that Will would work on one pattern and me and Grace worked on the other pattern. Me and Grace decided to work on the composite design pattern. She did most of the research for the pattern and then me and her worked on the code so that our code would run smoothly and properly. After all the coding was done I created the report were I included the location of the code, snapshots, and a brief description for both or our design patterns.

William’s Contribution:

Due to the current situation in the world we were only able to meet online. During these meetings we discussed what kind of patterns we could use and how we would implement them into our code. I choose to do the Null pattern and implement it within the employee section of code. You can read how the null pattern works in that explanation, but this is the part that I contributed to the group.