Assignment 5 Writeup Comparison between Memento Pattern and Command pattern Designs in terms of Assignments.

During my work for assignment 5, I have chosen to work using the Factory Method instead of the Abstract factory method. I believe that the factory method is a lot easier to understand and implement in terms of the given assignment. It was simply a case of creating a new file, migrating some code from one class to the other and making some minor changes here and there. It seemed like the better choice in my opinion because it is also less code heavy.

I implemented the factory method to assignment 2,3 and 4 in a very short span of time with great ease, there was very minor code changes throughout them corresponding to the development of the assignments over time. Initially I found the factory method to be hard to understand but just like with assignment 4's command pattern, once I did it was only a matter of writing it up in an hour or two and then making minor edits to make it fit with assignment 2 and 3.

When it comes to the styling objects, I used them in the same manner as I have been using them throughout the course. I had them implemented throughout the year in my input and have continued doing so, this time simply migrating them with my input statements into the Factory method, this made it easier for me to focus on the writeup and puml diagrams as I did not have to write anything new from scratch.

The impact of my chosen patterns on the design application simply showcase the many different OO approaches than one might take to develop a solid and reliable application. With the addition of the factory pattern to the mix, the input is much more easy to edit and the main method is a lot more simple to understand now that a major element of the code has been migrated to a different class. The main method is now clean and easy to understand and navigate. Everything is well commented and intuitive to navigate. The different classes correspond to different elements of the application and the different assignments along with assignment 5 showcase different approaches to the same application and how they work.