Critical Analysis

What went well was that I was able to use the things I have already used in the previous task and put it into this and adapt it so it can be used as a generic LinkedList, which I found pretty easy to implement into this program, I also found the concepts of the temp and prev rather tricky at the start when writing this program but over time, I grasped this concept much better with the help of 1-1 sessions and re watching lectures and reading through the PowerPoints. And also using and implementing the methods into a GUI which I find easier after using and learning how to use them and implement them into a GUI from Task A. What I also found easy was writing the Book class because after a 1-1 session I booked, I find it much easier to understand how the CompareTo and the IComparable function operates and why it will return a 0, -1 or +1 based off if it is the same, less than or greater then the thing you are comparing it too and how and why it should be used. Also the get and set functions are easy to implement to me as I know why it will need to be used which is for setting a string or int and also getting a string or int to be used in another class.

What I found rather difficult was knowing to implement the override function to override the generic ToString function. I could not implement it normally because the generic ToString will take a higher priority over the one I programmed in to return the Name, Author and ISBN through the get and set functions I programmed in the Book class so that it can be displayed in the message box.

Some of the key difficulties I had to overcome to submit this task was remembering where to put the <T> to define the type, and where to not put the <T>. What I did to overcome this was mostly trial and error and learning when I need to define the type and my understanding of how this works is that it is in the parameters and when referencing the LinkGen class to pass in the data and next variables so that it can be used in the method.

What could be improved in this which is code efficiency and making it less cluttered and complicated which I will need to research in finding if it is possible to make it simpler and make it more efficient to make it run smoother, I will have to learn ways to optimise this for the future for other people looking at my code to understand what is going on and for myself when I look back at the code so I can understand it if I ever need to refresh my mind on how and why a function works.