

## Criteria B: Design

Word count: 234

### **Design:**

To choose the priority of the task I have decided to use a point system, where depending on the variables like due date, amount of time required, and amount of points it is worth the algorithm will determine the priority of the assignment based on the amount of points the variables are worth. To get their worth, I will weigh each variable by how important it is, with the due date being weighted the most and the amount of time required being weighted the least. By using the system where I weigh each variable I can figure out how much each variable should be worth compared to one another. I will use these predetermined weights for each variable to calculate how much each variable will be worth in each assignment. I will do this by multiplying them by each variable, for example, I will multiply the number of points the assignment is worth by its weight, then add that to all the other variables. For time however I am going to calculate it on an inverse relationship, so the closer it gets to the due date, the points will exponentially grow. This will all be built on the JavaFX platform with buttons and a list that will show all the tasks in order from newest to oldest. Then there will be buttons to add and remove tasks and a button to sort them all.

