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## Homework 4 Design Document

I believe that the purpose of this project is to help us practice programming, learn how the insertion sort works and how to program it, ingrain in us the importance of writing effective notes and how to upload files into our programs. All of these skills are essential to know and understand in the real world I am guessing.

The classes that we need to implement are the Anagrams, JUnit testing, and Main classes. The Anagrams class is where the bulk of the code writing will be. This is where we will write our insertion sort. The JUnit testing class will first make sure that our insertion sort method is working properly, as well as all of the other methods in the Anagrams class. The Main class will hold the main method. Its purpose will be to upload a file, create an Anagrams object, and run the code.

I predict that I will once again, need all of the time that I can get on this assignment. I feel this way even though each assignment keeps sounding like they should be easier and easier to write. I am still having to do a lot of thinking even when writing what most people would consider an easy method. So all in all I am expecting to program for at least 16 hours if not more. The more the better! My goal is always to finish early, and test my code thoroughly before I submit it. This has not happened yet however because I have been unable to figure out how to complete the assignment within the time that I am able to work on it.