Programming Assignment #1 Report - Jacob Walton

While I originally had planned to do this project in C++ in an attempt to better familiarize myself with the program, I ended up switching to Java. This was due to the fact that I had much more experience in Java, as well as code I had already created from prior classes that I could use again. This decision proved to be the correct course of action as I did end up going back to some of my old coding projects and reshaping the code I did there to suit the new project. I made sure to include comments throughout the program (some areas have a lot more due to being comments remaining from those prior assignments that I deemed still relevant), not just for other programmers but for me since this is code I will be stepping away from and then coming back to when we start working on programming assignment #2. There is one section of code that is almost completely not created by me, instead by a user named koool on the overflow forms. Since this code was mainly created by another user, I made sure to credit them within the program code. The program itself is able to take in both the name of the company or the link to its 10-k form page to begin processing it. In the future I may add more ways to prompt this, but for now I believe what I have is sufficient. That is just one of the few calls I had to make when coding, things that were not entirely specified in the instructions and was left to me to decide. For one, what is considered a word? Because most people would consider things like “a” to be a word, but not things like “12(b)”. This posed a challenge: it became hard to determine what was a word and what was a marker. Since the code used to determine how many words the reports had was primarily made by someone else, I decided to stick with their definition, that instances of a letter or multiple letters grouped together would be counted as words, but instances of just numbers or symbols would not. Another call I had to make is what is considered a character. Notepad considers return lines to be considered characters, but Java does not. Once again, I ended up siding with code, choosing to go with Java’s ruling that return lines are *not* counted to the character count. I am quite happy with the end product of the code, and am certain I will continue to do well with the future assignments.