Chris Onopa

APC 390 Assignment 7

I tested reading the input file by selecting an invalid file type, such as .classpath. My program checks the extension to make sure a txt file is selected, if not it gives the user an error message and returns them to the main GUI window. I also tested the input file by selecting a valid txt file with 0 lines, this works but the output is blank. I tested an input file with 1-3 lines, one sentence per line. This correctly substitutes synonyms for words found in the selected thesaurus file. I tested an input file with more than 3 lines. The program will let the user know that only the first 3 lines will be used to substitute synonyms.

I tested a variety of input text to be converted into an array. I tested “normal” sentences with letters and punctuation. I also tested sentences with numbers, extra punctuation, and uppercase letters. The program removes punctuation and converts each string to lowercase in order to separate the words in the sentence, so the extra punctuation and numbers did not affect splitting the sentences into arrays of words.

I tested the programs ability to find matching words and replace with a random synonym by placing multiple words from the thesaurus file “synonyms.txt” and made sure each matched word was replaced. I also repeated a word multiple times in a sentence to make sure I was getting a random synonym from the found word.

I carefully checked the output displayed to the user to make sure the sentences were in their original form just with new synonyms for the matched words. I saved the new file to “synonymized.txt” and checked that the same data was written to the new file.