Assignment2 Program 1 writeup

Shane Stevens

This file to take a text file, and create a copy of it in a different directory. It starts off by making sure that the correct amount of arguments are given, then creates a 1024 byte buffer for copying text from one file to another. Next, it initializes variables that are going to be used in the file, including bytesRead, totalBytes, and writeVal, as well as opens the source and destination files. The source file is read only, since data will only be read to the file, and the destination is write only. If either file is invalid, the program stops.. Next, bytesRead= read(src, text, numBytes) is called. This reads the first numBytes(1024) bytes from the source file into the buffer, called text. Then it adds the number of bytes read to the totalBytes, which will eventually be the size of the new file. This process repeats until the entire file is read. The total number of bytes is also added to the copied file, which doesn’t really make a lot of sense to me, but the instructions do say, “This program also prints out the total number of bytes from the source text file to the destination file”, which I interpreted as print the number of bytes from the source text file in the destination file. Looking back on it, I probably misunderstood this part, but it is what it is. Lastly, I had it print out that the file was copied successfully, and print the total number of bytes.