Cosc 4740 – Lab02
Creating and Communicating with New Processes
Copying Files

1.1 Starting Repo

Accept the GitHub lab here: https://classroom.github.com/a/AX9_szB9
Starting repo will have a standard readme and initial code for you to work with in: filecopy.cpp

1.2 Goal

You will be designing and implementing a file-copying program using ordinary pipes. This program will be run in a terminal and passed two parameters:

- Name of the file to be copied
- Name of the copied file

After receiving the two parameters the program will then create an ordinary pipe and write the contents of the file to be copied to the pipe. A child processes will read this the contents from the pipe and write it to the destination file. For example, if we invoke the program as follows:

        ./filecopy input.txt copy.txt

The file input.txt will be written to the pipe. The child process will read the contents of this file and write it to the destination file copy.txt.

1.3 Task/Code

A stub of the code has been provided in the filecopy.cpp file provided to you in the starting GitHub repo. You need to complete the code and follow any instructions listed in the comments.

Note: This program returns an integer error code 0 when everything is successful and 1 when it is not. There are two arguments passed to the main function: an integer containing the number of parameters passed (argc) and an array of these values (argv) as a char **.

1.4 Submission

1. Your code pushed to git.
2. An updated readme pushed to git.
3. Do not include test files in your repo.
   a. But do make sure that you have tested it on your own with different files. Using simple text files is enough
4. This will be due next week at the start of class from the day it was assigned.