

I confirm that I will keep the content of this assignment confidential. I confirm that I have not received any unauthorized assistance in preparing for or writing this assignment. I acknowledge that a mark of 0 may be assigned for copied work. William Briguglio 104205372

- This program prompts user to enter a source and destination file for copying.

- It then opens the two files using system call `open()` and, assuming there are no errors, enters a while loop.

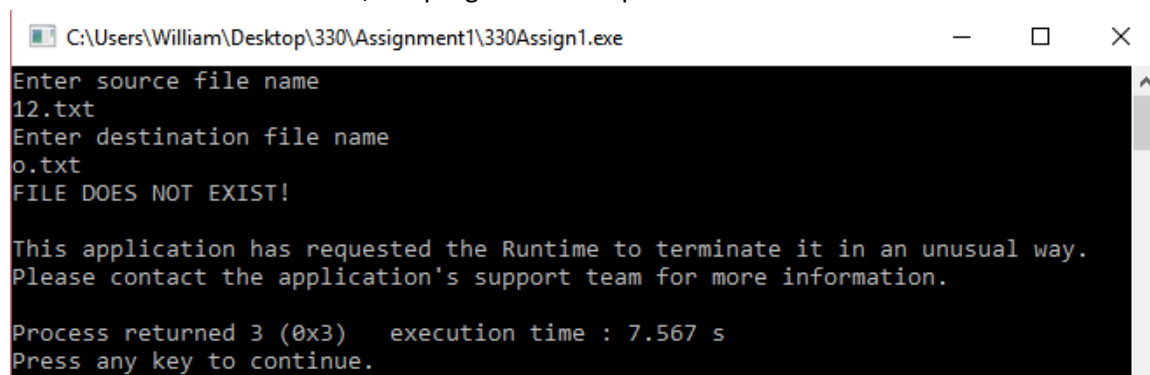
- if source doesn't exist or destination already exists then error message is displayed and program aborts

- It then uses system call `read()` to read from the source file into a string buffer called `buffer`. It then checks how many bytes were read, if 0 were read then the program must have hit EOF and it breaks from the loop.

- Else it uses system call `write()` to write to the destination file then reverts back to the beginning of the loop.

- After the program breaks from loop it displays the message "Write from [source] to [destination] has been completed" and terminates, returning 0.

- If the source file doesn't exist, the program will output "FILE DOESNT EXIST" and abort

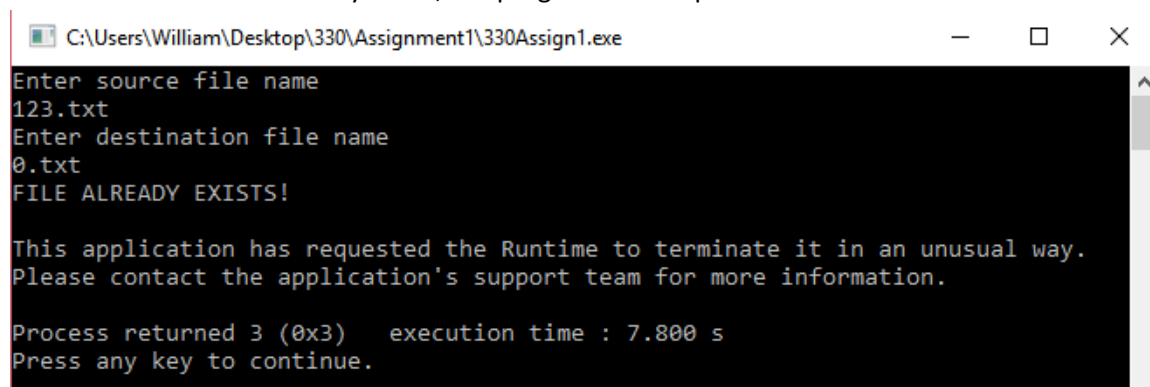


```
C:\Users\William\Desktop\330\Assignment1\330Assign1.exe
Enter source file name
12.txt
Enter destination file name
o.txt
FILE DOES NOT EXIST!

This application has requested the Runtime to terminate it in an unusual way.
Please contact the application's support team for more information.

Process returned 3 (0x3)   execution time : 7.567 s
Press any key to continue.
```

- If the destination file already exists, the program will output "FILE ALREADY EXISTS" and abort

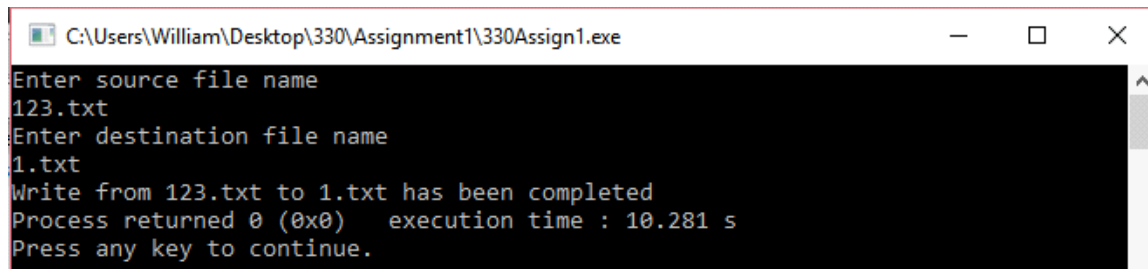


```
C:\Users\William\Desktop\330\Assignment1\330Assign1.exe
Enter source file name
123.txt
Enter destination file name
0.txt
FILE ALREADY EXISTS!

This application has requested the Runtime to terminate it in an unusual way.
Please contact the application's support team for more information.

Process returned 3 (0x3)   execution time : 7.800 s
Press any key to continue.
```

- If the program runs without error the message "Write from [source] to [destination] has been completed" and program terminates, returning 1.



A screenshot of a Windows command prompt window. The title bar at the top shows the file path "C:\Users\William\Desktop\330\Assignment1\330Assign1.exe" and standard window controls (minimize, maximize, close). The command prompt has a black background with white text. The text inside shows a sequence of prompts and user input: "Enter source file name", "123.txt", "Enter destination file name", "1.txt", "Write from 123.txt to 1.txt has been completed", "Process returned 0 (0x0) execution time : 10.281 s", and "Press any key to continue.".

```
C:\Users\William\Desktop\330\Assignment1\330Assign1.exe
Enter source file name
123.txt
Enter destination file name
1.txt
Write from 123.txt to 1.txt has been completed
Process returned 0 (0x0) execution time : 10.281 s
Press any key to continue.
```