Faculty of Engineering and Applied Science

SOFE 3200U Systems Programming

Lab Report 2

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Questions

1. **What are the errors you can foresee occurring when attempting to open a file for reading and writing?**

   - The file can be non-existent; however, all the file open modes in C for reading and writing (r+, w+, a+) will create a new file if it does not exist.
   - The file type or name can be invalid.
   - If the user does not have sufficient user privileges to open the file
   - If the file needs to be written to and is read-only

2. **What is proper procedure when you are done working with a text file input in C? What should you do with the pointer to the file at the end of the program?**

   The file should always be closed with the fclose() function when it is finished being opened and modified.

   - Data can potentially be lost if the file has buffering behind it and the file is not closed.
   - If the operating system has limited resources (i.e., number of open files), system resources are being wasted by keeping the file open