# Documentation

## main.ccp

#include <iostream>

#include <fstream>

#include <string>

#include <algorithm>

int main()

{

// Storing user input to a file

std::ofstream fileToAppend("CSC450\_CT5\_mod5.txt", std::ios::app);

if (!fileToAppend.is\_open())

{

std::cerr << "Error opening file for writing." << std::endl;

return 1;

}

std::string userInput;

std::cout << "Enter text (enter 'exit' to stop):" << std::endl;

while (true)

{

std::getline(std::cin, userInput);

if (userInput == "exit"){ break;}

fileToAppend << userInput << std::endl;

}

fileToAppend.close();

// Reversing the file

std::ifstream fileThatWasAppended("CSC450\_CT5\_mod5.txt");

if (!fileThatWasAppended.is\_open())

{

std::cerr << "Error opening file for reading." << std::endl;

return 1;

}

std::string appendFileContents(

(std::istreambuf\_iterator<char>(fileThatWasAppended)),

std::istreambuf\_iterator<char>());

fileThatWasAppended.close();

std::reverse(appendFileContents.begin(), appendFileContents.end());

std::ofstream reverseOfAppendFile("CSC450-mod5-reverse.txt");

if (!reverseOfAppendFile.is\_open())

{

std::cerr << "Error opening file for writing reversed content." << std::endl;

return 1;

}

reverseOfAppendFile << appendFileContents;

reverseOfAppendFile.close();

std::cout << "Done." << std::endl;

return 0;

}

## Execution

A screen shot of a computer

Description automatically generated

## Contents of CSC450\_CT5\_mod5 after program execution

Please be sure to append your data to this text file.

If these first three lines are deleted, then your program is not functioning as expected.

Testing line one

This should be the second line

Exiting after this line

## Contents of CSC450-mod5-reverse.txt after program execution

enil siht retfa gnitixE

enil dnoces eht eb dluohs sihT

eno enil gnitseT

.detcepxe sa gninoitcnuf ton si margorp ruoy neht ,deteled era senil eerht tsrif eseht fI

.elif txet siht ot atad ruoy dneppa ot erus eb esaelP

## Psuedocode

## #include <iostream>

## #include <fstream>

## #include <string>

## #include <algorithm>

## int main(){

## //output stream to append user input to file

## ofstream fileToAppend("CSC450\_CT5\_mod5.txt", std::ios::app);

## std:string userInput;

## while(true){

## userInput << cin;

## if userInput = "exit" break;

## fileToAppend << userInput;

## }

## fileToAppend.close();

## //input stream to read the file as input

## ifstream fileThatWasAppended("CSC450\_CT5\_mod5.txt");

## string appendFileContents(fileThatWasAppended);

## fileThatWasAppended.close();

## reverse(appendFileContents);

## //output stream to store the reverse of the file into a seperate file

## ofstream reverseOfAppendFile("CSC450-mod5-reverse.txt");

## reverseOfAppendFile << appendFileContents;

## reverseOfAppendFile.close();

## return 0;

## }

## Github

https://github.com/n0hb0dy/csc450\_ct\_assignments/tree/main/Module%20Five