Critical Thinking Week 5

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CSC450 Programming III

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Pseudocode:

BEGIN PROGRAM

   FUNCTION reverseString(data)

      CREATE variable reversed as a copy of data

      SET start to 0

      SET end to length of reversed - 1

      WHILE start < end

         SWAP characters at positions start and end in reversed

         INCREMENT start

         DECREMENT end

      RETURN reversed

   END FUNCTION

   MAIN PROGRAM

    TRY

      PRINT "Enter text to append to the file: "

      GET user input as userInput

      OPEN file "CSC450_CT5_mod5.txt" in append mode as outputFile

      IF outputFile is not open

         PRINT "Error: Unable to open CSC450_CT5_mod5.txt for writing."

         RETURN 1

      WRITE userInput to outputFile

      CLOSE outputFile

      OPEN file "CSC450_CT5_mod5.txt" in read mode as inputFile

      IF inputFile is not open

         PRINT "Error: Unable to open CSC450_CT5_mod5.txt for reading."

RETURN 1

CREATE variable fileContent as an empty string
WHILE there are lines to read from inputFile
    READ line from inputFile
    APPEND line and newline to fileContent
CLOSE inputFile

CALL reverseString with fileContent and store result in reversedContent

OPEN file "CSC450_mod5_reverse.txt" in write mode as reversedFile
IF reversedFile is not open
    PRINT "Error: Unable to open CSC450_mod5_reverse.txt for writing."
    RETURN 1
WRITE reversedContent to reversedFile
CLOSE reversedFile

PRINT "Text successfully appended and reversed content saved to CSC450_mod5_reverse.txt."

CATCH exception
    PRINT "An error occurred: " followed by exception message
    RETURN 1

END TRY

END MAIN PROGRAM

END PROGRAM