Programming Exercises

12.1 Write a program to copy the contents of one file into another.

12.2 Two files DATA1 and DATA2 contain sorted lists of integers. Write a program to produce a third file DATA which holds a single sorted, merged list of these two lists. Use command line arguments to specify the file names.

12.3 Write a program that compares two files and returns 0 if they are equal and 1 is they are not.

12.4 Write a program that appends one file at the end of another.

12.5 Write a program that reads a file containing integers and appends at its end the sum of all the integers.

12.6 Write a program that prompts the user for two files, one containing a line of text known as source file and other, an empty file known as target file and then copies the contents of source file into target file.

Modify the program so that a specified character is deleted from the source file as it is copied to the target file.

12.7 Write a program that requests for a file name and an integer, known as offset value. The program then reads the file starting from the location specified by the offset value and prints the contents on the screen.

Note: If the offset value is a positive integer, then printing skips that many lines. If it is a negative number, it prints that many lines from the end of the file. An appropriate error message should be printed, if anything goes wrong.

12.8 Write a program to create a sequential file that could store details about five products. Details include product code, cost and number of items available and are provided through keyboard.

12.9 Write a program to read the file created in Exercise 12.8 and compute and print the total value of all the five products.

12.10 Rewrite the program developed in Exercise 12.8 to store the details in a random access file and print the details of alternate products from the file. Modify the program so that it can output the details of a product when its code is specified interactively.