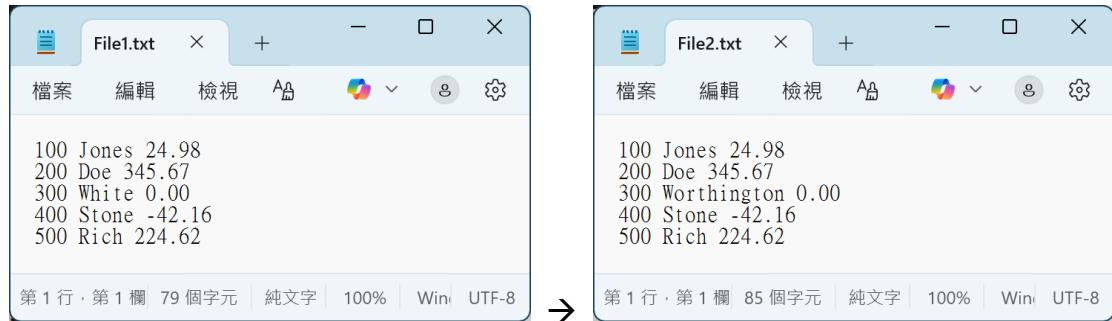


11.X Updating a specific field or record in a sequential access file: Write a program to perform the following tasks: First, the program reads the content of File1.txt, which consists of several lines of the account information: number, name, and balance. The program then asks the user to enter which account to be updated. After the user provides the new account information, the program writes all the new content to File2.txt. For example,

```
The content of File1.txt is as follows:  
100 Jones 24.98  
200 Doe 345.67  
300 White 0.00  
400 Stone -42.16  
500 Rich 224.62  
  
Enter the account to be updated: 300  
Enter the new name and balance: Worthington 0.00  
  
The content is updated and written to File2.txt, as you can see:  
100 Jones 24.98  
200 Doe 345.67  
300 Worthington 0.00  
400 Stone -42.16  
500 Rich 224.62
```



ANS:

11.X Simple transaction-processing program: The program creates and maintains a simple bank account system. It allows creating a new database of blank accounts, updating existing accounts, adding new accounts, deleting accounts, storing a listing of all the current accounts in a text file for printing. Just combine the two examples (Figs. 11.4 and 11.7) developed in the textbook into a single program. For example,



The screenshot shows a Windows command-line interface window titled "C:\TEMP\BankAccount11_1116.exe". The window displays a series of menu choices and user interactions for managing a bank account database.

```
C:\TEMP\BankAccount11_1116.exe

Enter your choice
0 - Before 1st operation, create a new database called "credit.dat"
1 - Store a formatted text file of accounts called "accounts.txt" for printing
2 - Update an account
3 - Add a new account
4 - Delete an account
5 - End program
? 3
File does not exist or could not be opened.
Select 0 first to create a new database!

Enter your choice
0 - Before 1st operation, create a new database called "credit.dat"
1 - Store a formatted text file of accounts called "accounts.txt" for printing
2 - Update an account
3 - Add a new account
4 - Delete an account
5 - End program
? 0
A new database of 100 blank accounts is created.

Enter your choice
0 - Before 1st operation, create a new database called "credit.dat"
1 - Store a formatted text file of accounts called "accounts.txt" for printing
2 - Update an account
3 - Add a new account
4 - Delete an account
5 - End program
? 3
Enter new account number < 1 - 100 >: 10
Enter lastname, firstname, balance
? Rong-Jiun Sheu 300.0

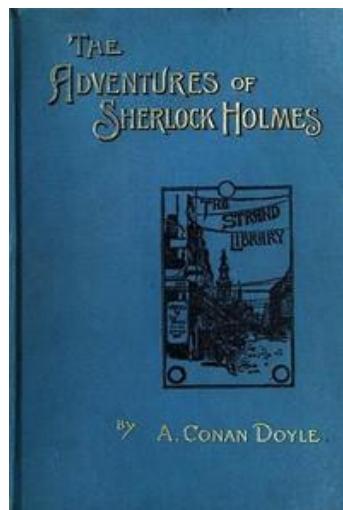
Enter your choice
0 - Before 1st operation, create a new database called "credit.dat"
1 - Store a formatted text file of accounts called "accounts.txt" for printing
2 - Update an account
3 - Add a new account
4 - Delete an account
5 - End program
? 2
Enter account to update < 1 - 100 >: 10
10    Rong-Jiun      Sheu      300.00

Enter charge < + > or payment < - >: -20.0
10    Rong-Jiun      Sheu      280.00

Enter your choice
0 - Before 1st operation, create a new database called "credit.dat"
1 - Store a formatted text file of accounts called "accounts.txt" for printing
2 - Update an account
3 - Add a new account
4 - Delete an account
5 - End program
? 1
```

11.X Book analyzer: Write a program that allows you to count the total number of words in the book and calculate word frequencies to find the most frequent 25 words. Go to the website of Project Gutenberg (<https://www.gutenberg.org/>) and download a book in plain text. For example, *The Adventures of Sherlock Holmes* by A. C. Doyle
→ **SherlockHolmes.txt** (593 kB)

《福爾摩斯冒險史》是亞瑟·柯南·道爾所創作的第一本短篇小說合集，共收錄12篇短篇小說，整本小說圍繞在偵探夏洛克·福爾摩斯的辦案經歷。



字數統計	
統計:	
頁數	324
字數	107,752
字元數 (不含空白)	470,858
字元數 (含空白)	569,228
段落數	9,626
行數	12,304
半形字	107,752
全形字	0
<input checked="" type="checkbox"/> 含文字方塊、註腳及章節附註(F)	
關閉	

```
C:\0.JOBs\0.Notes\Programming Languages\Misc\BookAnalyzer\BookAnalyzer.exe
The book being analyzed: SherlockHolmes.txt
Total number of words: 108978
Number of different words: 8069
The most common words are:
the          5822
and          3085
i            3038
to           2826
of           2781
a            2701
in           1826
that          1767
it            1749
you          1577
he            1486
was          1412
his          1159
is            1147
my            1007
have          931
with          877
as            863
had          831
at            782
which         778
for           752
not           664
but           655
be            644
me            635
```

ANS: