# Assignment

Week 19 CT103 Programming

Lab Week Beginning 23<sup>rd</sup> March 2015

#### Assignment Description (1/2)

- This week's assignment you are asked to modify an existing program
- Using the provided sample from Deitel & Deitel, you will modify the programs, which instead of managing a binary file of account records, it will manage a binary file containing book shop records
- In this program you will:
  - Create a binary file containing 100 'blank' book records (you may create a separate program which does this or make it a function in your main program as per the sample input / output which follows. In the sample solution I have an IF statement that creates the binary file if fopen() returns a NULL pointer.
  - The program reads book data from user input and saves it in the binary file
  - The program must also be able to retrieve records from the binary file and display them
  - The main functions you will perform on the book records after reading them from the binary file are:
    - Delete record
    - Add record
    - Update retail price
    - Write all non-blank records to a text file

#### Assignment Description (2/2)

- The ISBN numbers will be 1-100 (to keep it simple for searching for records).
- Each book will be stored in it's appropriate block in the binary file according to its ISBN number

```
char title[20];
char author[20];
int year;
int ISBN;
float wholesale_price;
float retail_price;
};
```

#### Add Book

```
💌 "c:\Documents and Settings\jinjing\My Documents\Visual Studio Projects\Week14\Debug\W... 💶 🗖
File does not exist
Creating binary file with blank records
Enter your choice
 - store a formatted text file of books called "books.txt" for printing
- update a retail price
- add a new record
  - delete a record

    end program

Enter new ISBN number ( 1 - 100 ): 1
Enter title:
New Stories
Enter author:
Susie Linux
Enter Year:
2013
Enter wholesale price:
Enter retail price:
```

#### Add Book

```
"c:\Documents and Settings\jinjing\My Documents\Visual Studio Projects\Week14\Debug\W... 💶 🗖 🗙
Enter your choice
1 - store a formatted text file of books called
"books.txt" for printing
2 - update a retail price
3 - add a new record
4 – delete a record

    end program

Enter your choice

1 - store a formatted text file of books called
"books.txt" for printing
2 - update a retail price
3 - add a new record

    delete a record

  - end program
Enter new ISBN number ( 1 - 100 ): 2
Enter title:
Old Tales
Enter author:
Jay Div
Enter Year:
2010
Enter wholesale price:
Enter retail price:
```

### **Update Retail Price**

```
💌 "c:\Documents and Settings\jinjing\My Documents\Visual Studio Projects\Week14\Debug\... 💶 🗖 🗙
Enter your choice
 - store a formatted text file of books called
 "books.txt" for printing
- update a retail price
- add a new record
  - delete a record

    end program

Enter your choice

    store a formatted text file of books called
"books.txt" for printing

update a retail price
add a new record

    delete a record

    end program

Enter ISBN (1-100) to update: 1
           New Stories
                                         Susie Linux
                                                                0
                                                                                    12.00
Enter new retail price: 19
           New Stories
                                         Susie Linux
                                                                Ø
                                                                            1
                                                                                    12.00
   19.00
```

### Check Text File Output

books.txt - Notepad						
<u>File Edit Format View H</u> elp						
Title New Stories Old Tales	Author Susie Linux Jay Div	Year 0 0	ISBN 1 2	Wholesale 12.00 23.00	Retail 15.00 45.00	<

#### Delete Book

```
"c:\Documents and Settings\jinjing\My Documents\Visual Studio Projects\Week14\Debug\... 💶 🗖 🗙
   19.00
Enter vour choice
 - store a formatted text file of books called
"books.txt" for printing
- update a retail price
- add a new record
  - delete a record
  - end program
Enter ISBN to delete ( 1 - 100 ): 2
Enter your choice
 - store a formatted text file of books called "books txt" for printing - update a retail price
3 – add a new record
  - delete a record

    end program

Enter your choice

store a formatted text file of books called "books.txt" for printing
update a retail price
add a new record

  - delete a record

    end program
```

## Check Text file Output

