```c
// Intro to structures in C
// Accessing data from a file......

#include <stdio.h>
#include <string.h>

struct Books
{
   char   title[50];
   char   author[50];
   char   subject[100];
   int    book_id;
};

int main( )
{
   struct Books Book1;        /* Declare Book1 of type Book */
   struct Books Book2;        /* Declare Book2 of type Book */
   int n = 0;
   char c[50];

   FILE *fp;

      fp = fopen("E:/books.txt", "r");      //open the file to read...

   while (!feof(fp))
    {
               fscanf(fp,"%s[^\n]",c);
            strcpy(Book1.title,c);        //copy the buffer to string array

            fscanf(fp,"%s[^\n]",c);
            strcpy(Book1.author,c);

            fscanf(fp,"%s[^\n]",c);
            strcpy(Book1.subject,c);

         fscanf(fp, "%d", &Book1.book_id);

           n = n + 1;
    }
       fclose(fp);

   /* book 1 specification */
 /*
   strcpy( Book1.title, "C Programming");
   strcpy( Book1.author, "Nuha Ali");
   strcpy( Book1.subject, "C Programming Tutorial");
   Book1.book_id = 6495407;
*/

   /* book 2 specification */
   strcpy( Book2.title, "Telecom Billing");
   strcpy( Book2.author, "Zara Ali");
   strcpy( Book2.subject, "Telecom Billing Tutorial");
   Book2.book_id = 6495700;

   /* print Book1 info */
```

```
    printf( "Book 1 title : %s\n", Book1.title);
    printf( "Book 1 author : %s\n", Book1.author);
    printf( "Book 1 subject : %s\n", Book1.subject);
    printf( "Book 1 book_id : %d\n", Book1.book_id);

    /* print Book2 info */
    printf( "\nBook 2 title : %s\n", Book2.title);
    printf( "Book 2 author : %s\n", Book2.author);
    printf( "Book 2 subject : %s\n", Book2.subject);
    printf( "Book 2 book_id : %d\n", Book2.book_id);

    getch();
    return 0;
}
```