

```

1 #include "Bookstore.h"
2 #include <iostream>
3 #include <string>
4 using namespace std;
5
6 int main() {
7     Bookstore store;
8
9     store.addBook(Book("1984", "George Orwell", 9.99))
10    .addBook(Book("Animal Farm", "George Orwell", 7.99))
11    .addBook(Book("The Great Gatsby", "F. Scott Fitzgerald", 14.99))
12    .addBook(Book("A Brief History of Time", "Stephen Hawking", 15.99))
13    .addBook(Book("Sapiens", "Yuval Noah Harari", 18.99));
14
15    store.displayBooks().sellBook(1).sellBook(3);
16
17    cout << "\nTotal Books Sold: " << Book::totalSales << endl;
18
19    return 0;
20 }
21

```

```

1 #ifndef BOOKSTORE_H
2 #define BOOKSTORE_H
3 #include <iostream>
4 #include "Book.h"
5
6 const int MAX_BOOKS = 5;
7
8 class Bookstore{
9     public:
10         Bookstore();
11
12         Bookstore &addBook(Book);
13         Bookstore &displayBooks();
14         Bookstore &sellBook(int);
15
16     private:
17         Book books[MAX_BOOKS];
18         int booknum;
19 };
20
21
22 #endif

```

```

1 #include "Bookstore.h"
2 #include <iostream>
3 #include <string>
4 using namespace std;
5
6 Bookstore::Bookstore() : booknum(0){}
7
8 Bookstore &Bookstore::addBook(Book book){
9     books[booknum] = book;
10    booknum++;
11
12    return *this;
13 }
14
15 Bookstore &Bookstore::displayBooks(){
16     for (int i=0; i<booknum; i++){
17         cout << (i+1) << ". ";
18         books[i].display();
19         cout << endl;
20     }
21
22     return *this;
23 }
24
25 Bookstore &Bookstore::sellBook(int index){
26     books[index].sell();
27
28     return *this;
29 }

```

```

1 #ifndef BOOK_H
2 #define BOOK_H
3
4 #include <string>
5 using namespace std;
6
7 class Book{
8     public:
9         Book();
10        Book(string, string, float);
11        Book(const Book &);
12
13        Book &display();
14        Book &sell();
15
16        static float totalSales;
17
18     private:
19        string title;
20        string author;
21        float price;
22 };
23
24
25 #endif

```

```

1  #include "Book.h"
2  #include <iostream>
3  #include <string>
4  using namespace std;
5
6  float Book::totalSales = 0;
7
8  Book::Book(){}
9
10 Book::Book(string t, string a, float p)
11     : title(t), author(a), price(p){}
12
13 Book::Book(const Book &copy) : title(copy.title), author(copy.author), price(copy.price){
14     cout << "\ncopy constructor";
15 }
16
17 Book &Book::display(){
18     cout << "Title: " << title << ", " << "Author: " << author
19     << ", " << "Price: " << price;
20
21     return *this;
22 }
23
24 Book &Book::sell(){
25     totalSales += price;
26
27     return *this;
28 }

```

```

1. Title: 1984, Author: George Orwell, Price: 9.99
2. Title: Animal Farm, Author: George Orwell, Price: 7.99
3. Title: The Great Gatsby, Author: F. Scott Fitzgerald, Price: 14.99
4. Title: A Brief History of Time, Author: Stephen Hawking, Price: 15.99
5. Title: Sapiens, Author: Yuval Noah Harari, Price: 18.99

Total Books Sold: 23.98

```