

```

1  #include<iostream>
2  #include<string>
3
4  using namespace std;
5
6  class Book {
7      private:
8          string title;
9          string author;
10         double price;
11         int stock;
12
13     public:
14         // Constructor
15         Book(string title, string author, double price, int stock)
16         {
17             this->title = title;
18             this->author = author;
19             this->price = price;
20             this->stock = stock;
21         }
22
23         string getTitle()
24         {
25             return title;
26         }
27
28         string getAuthor()
29         {
30             return author;
31         }
32
33         double getPrice()
34         {
35             return price;
36         }
37
38         int getStock()
39         {
40             return stock;
41         }
42
43         bool purchase(int num)
44         {
45             if (stock >= num)
46             {
47                 stock -= num;
48                 return true;
49             }
50             else
51             {
52                 return false;
53             }
54         }
55     };
56
57     int main()
58     {
59         // Create a book
60         Book book("Book Title", "Author Name", 20.99, 10);
61
62         // Customer wants to purchase 5
63         int purchaseNum = 5;
64         if (book.purchase(purchaseNum))
65         {
66             cout << "Purchase successful! Total cost: " << book.getPrice() * purchaseNum << endl;

```

```
67     }
68     else
69     {
70         cout << "Required copies not in stock" << endl;
71     }
72
73     return 0;
74 }
```