```
#include <iostream>
#include <iomanip>
#include <sstream>
using namespace std;
const int MAX_BOOKS = 10;
struct Book
  string no;
  string title;
  string author;
  double price;
};
struct creditCard
  string cardNumber;
  string password;
void addToCart(Book cart[],int &cartSize, Book books[], int numBooks, const string &input)
{
  int index;
  istringstream iss(input);
  while(iss >> index)
    index--;
    if (index>=0 && index <numBooks)
      if(cartSize <MAX_BOOKS)</pre>
         cart[cartSize++]= books[index];
      }
      else
         cout <<"\nCart is full" <<endl;</pre>
         break;
      }
    }
    else
      cout << "Invaild book index";</pre>
      break;
    }
  }
```

```
bool Payment(creditCard &creditCard)
  cout << "Enter Credit/Debit card details:" <<endl;</pre>
  cout << "Credit Number: ";</pre>
  cin >> creditCard.cardNumber;
  cout << "Password: ";
  cin >> creditCard.password;
  cout << endl <<endl;
  return !creditCard.cardNumber.empty() && !creditCard.password.empty();
}
void availableBooks(Book books[], int numBooks)
  cout << " --Available Books-- " << endl;
  for (int i = 0; i < numBooks; i++)
    cout <<books[i].no << "Title: " << setw(20)<< left << books[i].title << "\t Price: $" <<
              fixed <<setprecision(2) << setw(6) << right <<books[i].price << endl
               << " Author: " << books[i].author << endl << endl;
  }
  cout << endl << "
                                         "<<endl;
}
void searchBooks (Book books[], int numBooks, const string& search)
  cout << " --Searhced Books-- " << endl;
  for(int i = 0 ; i<numBooks; ++i)</pre>
    if(books[i].title.find(search) != string :: npos || books[i].author.find(search) != string ::
npos)
              {
      cout<<books[i].no << "Title: " << setw(20) << left << books[i].title
                      << "\tPrice: $" << fixed << setprecision(2) << setw(6) << right
<<books[i].price << endl
                      << " Author: " << books[i].author << endl << endl;
    }
  }
  cout << endl << " ----- "<<endl;
void display()
                 --Book Store-- " << endl <<endl;
  cout << "\n\n
  cout << "1. View available books" << endl;
  cout << "2. Search a book by title or author (Upper Case)" << endl;
```

```
cout << "3. Add books to a shopping cart" << endl;</pre>
  cout << "4. View the contents of the shopping cart" << endl;
  cout << "5. Complete the purchase" << endl;
  cout << "6. Exit" << endl;
  cout << endl << "
                                         "<<endl;
}
int main ()
  Book books [MAX_BOOKS] =
    {"1. ","A TIME TO KILL", "JOHN GRISHAM", 20.15},
    {"2. ","THE HOUSE OF MIRTH", "EDITH WHARTON", 15.15},
    {"3. ","EAST OF EDEN", "JOHN STEINBECK", 17.65},
    {"4. ","THE SUN ALSO RISES", "ERNEST HEMINGWAY", 10.00},
    {"5. ","NUMBER THE STARS", "LOIS LOWRY", 25.61},
  };
  creditCard creditCard;
  Book cart[MAX BOOKS];
  int numBooks = 5;
  int cartSize = 0;
  while(true)
       {
    display();
    int choice;
    cout << "Enter your Choice: ";
    cin >> choice;
    cout <<endl <<endl;
    switch (choice)
    case 1:
      availableBooks(books, numBooks);
      break;
    case 2:
      {
         cin.ignore();
         cout << "Enter the title or author's name: ";
         string search;
         getline(cin, search);
         searchBooks(books, numBooks, search);
      }
      break;
    case 3:
         cin.ignore();
         availableBooks(books, numBooks);
         cout << "Enter the index number to add to the cart: ";
```

```
//cin >> index;
    string input;
    getline(cin, input);
    addToCart(cart, cartSize, books, numBooks, input);
    cout << "\nAdded to the cart" << endl;</pre>
  }
  break;
case 4:
  {
  availableBooks(cart, cartSize);
  if(cartSize>0)
         double cost = 0.0;
         for (int i = 0; i<cartSize; ++i)</pre>
                                            {
         cost += cart[i].price;
       cout << "Total cost: $" << cost << endl;</pre>
  }
  }
  break;
case 5:
  {
    if(cartSize>0)
       if(Payment(creditCard))
         double cost = 0.0;
         for (int i = 0; i<cartSize; ++i)
                                            {
         cost += cart[i].price;
       cout << "Total cost: $" << cost << endl;</pre>
       cout << "Purchase completed. Thank you.\n" << endl;</pre>
       cartSize =0;
       }
       else
       cout << "Invaild card details. Payment failed." << endl;</pre>
       }
    }
    else {
       cout <<"\nCart is empty. Add books to the cart first" <<endl;</pre>
    }
```

```
}
  break;
case 6:
  cout << "Exited form the Book store." << endl;
  return 0;

default:
  cout << "Invaild choice. Please enter a number between 1 to 6";
}
}
</pre>
```