

```

1 #include <iostream>
2 #include <fstream>
3 #include <string>
4 using namespace std;
5
6 class BankAccount {
7 private:
8     double balance;
9
10 public:
11     BankAccount() {
12         balance = 0.00;
13     }
14
15     void deposit(double cash) {
16         balance += cash;
17         cout << "Cash Before Spending was " << balance << endl;
18         saveTransaction("Deposit", cash);
19     }
20
21     void makePurchase(string item, double cost) {
22         if (cost > balance) {
23             cout << "Insufficient funds for " << item << endl;
24         } else {
25             balance -= cost;
26             cout << "Purchased: " << item << " " << cost << endl;
27             saveTransaction("Purchase - " + item, cost);
28         }
29     }
30
31     void displayBalance() {
32         cout << "Current amount: $" << balance << endl;
33     }
34
35     void saveTransaction(string type, double cash) {
36         ofstream file("transactions.txt", ios::app); //each action (deposit and purchase) is written to transaction.txt
37         if (file.is_open()) {
38             file << type << "; $" << cash << endl;
39             file.close();
40         }
41     }
42 };
43
44 int main() {
45     BankAccount myAccount; //BankAccount object
46     cout << "_____Bank Balance History_____ \n";
47
48     cout << "\n" << endl;
49     myAccount.deposit(793.21);
50     cout << "\n" << endl;
51
52     myAccount.makePurchase("Toy Truck", 9.99);
53     myAccount.makePurchase("Fish Food", 15.00);
54     myAccount.makePurchase("Lighter", 8.50);
55     myAccount.makePurchase("Mittens", 12.50);
56
57     myAccount.displayBalance(); //Prints final balance.
58     return 0;
59 }
60
61
62

```

1 #include &lt;iostream&gt;

2 #include &lt;fstream&gt;

3 #include &lt;string&gt;

4 using namespace std;

5

6 class BankAccount {

7 private:

8 double balance;

9

10 public:

11 BankAccount() {

12 balance = 0.00;

13 }

14

15 void deposit(double cash) {

16 balance += cash;

17 cout &lt;&lt; "Cash Before Spending was " &lt;&lt; balance &lt;&lt; endl;

18 saveTransaction("Deposit", cash);

19 }

20

21 void makePurchase(string item, double cost) {

22 if (cost &gt; balance) {

23 cout &lt;&lt; "Insufficient funds for " &lt;&lt; item &lt;&lt; endl;

24 } else {

25 balance -= cost;

26 cout &lt;&lt; "Purchased: " &lt;&lt; item &lt;&lt; " " &lt;&lt; cost &lt;&lt; endl;

27 saveTransaction("Purchase - " + item, cost);

28 }

29 }

30

31 void displayBalance() {

32 cout &lt;&lt; "Current amount: \$" &lt;&lt; balance &lt;&lt; endl;

33 }

34

35 void saveTransaction(string type, double cash) {

36 ofstream file("transactions.txt", ios::app); //each action (deposit and purchase) is written to transaction.txt

37 if (file.is\_open()) {

38 file &lt;&lt; type &lt;&lt; "; \$" &lt;&lt; cash &lt;&lt; endl;

39 file.close();

40 }

41 }

Input/Output

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Language version:

g++ 17.0.0 13.2.1

Interactive Mode

Input arguments

Output

Generated files

Bank Balance History

Cash Before Spending was 793.21

Purchased: Toy Truck 9.99

Purchased: Fish Food 15

Purchased: Lighter 8.9

Purchased: Mittens 12.5

Current amount: \$754.82

Compiled and executed in 139f 556(e)

Email

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I need help