

EXPLORER

OPEN EDITORS

bank_account.cpp

CIS25

.vscode

bank_account

bank_account.cpp

cost_output

cost_output.cpp

data.txt

functions.cpp

functions.h

hello_inventory

hello_inventory.cpp

ifstatementmenu

ifstatementmenu.cpp

inventory_search

inventory_search.cpp

item_program

item_program.cpp

largest_number

largest_number.cpp

main.cpp

module_5.cpp

showMenu

transactions.txt

OUTLINE

TIMELINE

bank_account.cpp

bank_account.cpp > bank_account

```
1  #include <iostream>
2  #include <fstream>
3  #include <string>
4  #include <iomanip>
5  using namespace std;
6  const string transaction_file = "transactions.txt";
7  class bank_account {
8  private:
9      double balance;
10     void saveTransaction(const string& type, double amount, const string& item = "") {
11         ofstream outFile(transaction_file, ios::app);
12         if (outFile.is_open()) {
13             outFile << fixed << setprecision(2);
14             if (type == "deposit") {
15                 outFile << "Deposit: +" << amount << "New balance: " << balance << endl;
16             } else if (type == "purchase") {
17                 outFile << "Purchase: -" << amount << " (" << item << ") new balance: " << balance << endl;
18             } else if (type == "intial deposit") {
19                 outFile << "Initial deposit: +" << amount << " new balance: " << balance << endl;
20             }
21             outFile.close();
22         } else {
23             cout << "error: cannot open file" << endl;
24         }
25     }
26 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

isabellalynnabetong@Isabellas-MacBook-Air cis25 % g++ bank_account.cpp -std=c++17 -o bank_account

isabellalynnabetong@Isabellas-MacBook-Air cis25 % ./bank_account

Account created with initial balance: \$500.00

deposit: \$150.75. New balance: \$650.75

Purchased: Gold bean cafe for \$25.50. new balance: \$625.25

deposit: \$200.00. New balance: \$825.25

Transaction failed: insufficient funds for Apple laptop.

Purchased: trader joes for \$50.00. new balance: \$775.25

Final account balance: \$775.25

Transaction history from (transactions.txt)

Deposit: +150.75New balance: 650.75

Purchase: -25.50 (Gold bean cafe) new balance: 625.25

Deposit: +200.00New balance: 825.25

Purchase: -50.00 (trader joes) new balance: 775.25

Deposit: +150.75New balance: 650.75

Purchase: -25.50 (Gold bean cafe) new balance: 625.25

Deposit: +200.00New balance: 825.25

Purchase: -50.00 (trader joes) new balance: 775.25

isabellalynnabetong@Isabellas-MacBook-Air cis25 %

zsh

zsh

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