

EXPLORER

CIS 25

.vscode

launch.json

bank

module8.cpp

transactions.txt

module8.cpp

main()

```
6 class BankAccount {
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 << " for $" << cost << endl;
27         saveTransaction("Purchase - " + item, cost);
28     }
29 }
30
31 void printBalance() {
32     cout << "Current Balance: $" << balance << endl;
33 }
34
35 void saveTransaction(string type, double amount) {
36     ofstream file("transactions.txt", ios::app);
37     if (file.is_open()) {
38         file << type << ": $" << amount << endl;
39         file.close();
40     }
41 }
42 };
43
44 int main() {
45     BankAccount myAccount;
46     myAccount.deposit(10); // initial balance
47
48     cout << "Added starting balance of $10" << endl;
49 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

JavaScript Debug T

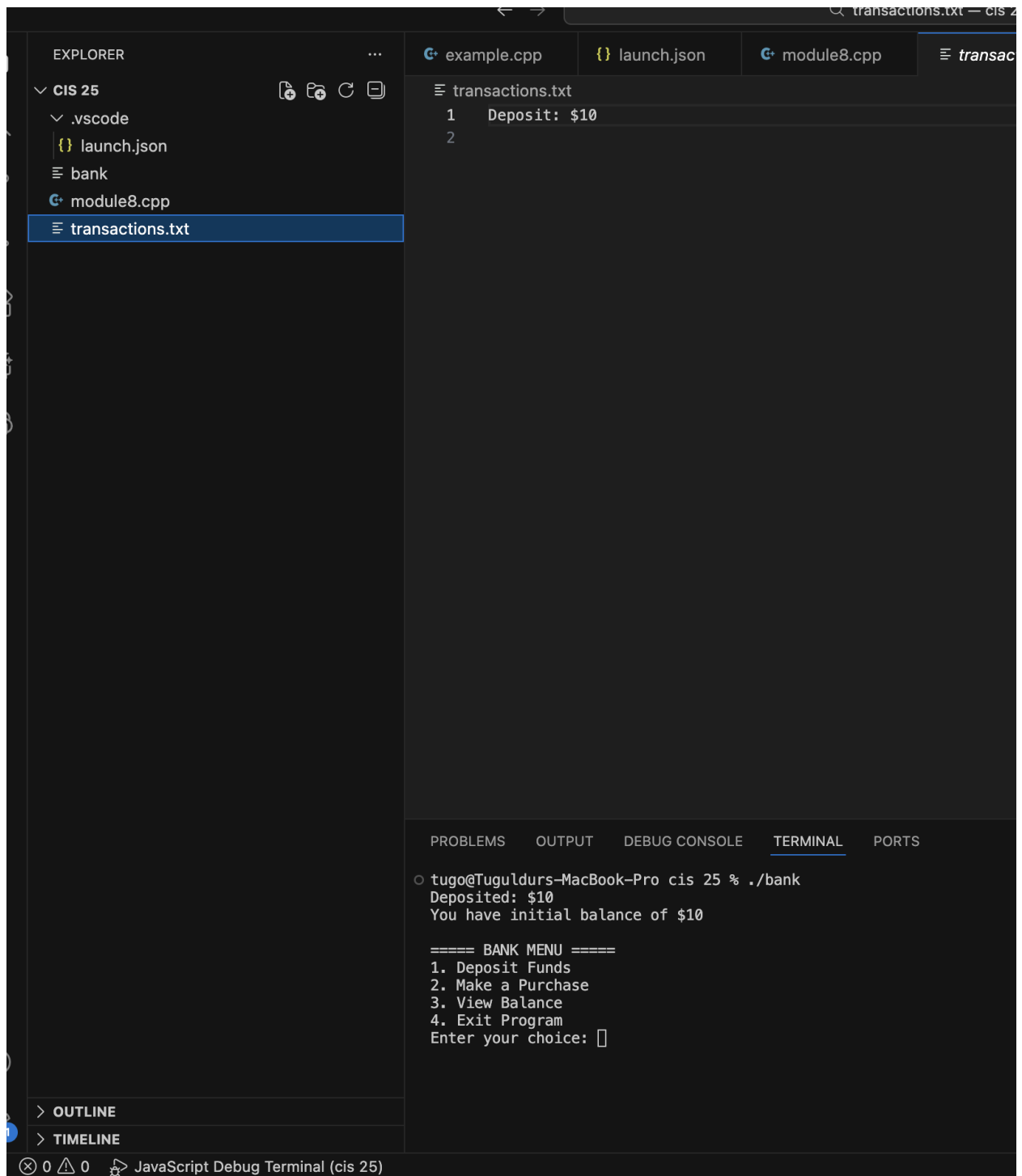
```
o tugo@Tuguldurs-MacBook-Pro cis 25 % ./bank
Deposited: $10
You have initial balance of $10

===== BANK MENU =====
1. Deposit Funds
2. Make a Purchase
3. View Balance
4. Exit Program
Enter your choice: █
```

OUTLINE

TIMELINE

0 0 JavaScript Debug Terminal (cis 25) Screen Reader Optimized Ln 44, Col 13 Spaces: 4



EXPLORER

...

✓ CIS 25

✓ .vscode

{} launch.json

≡ bank

example8.cpp

transactions.txt

example.cpp

launch.json

module8.cpp

transactions.t

≡ transactions.txt

1 Deposit: \$10

2

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

○ tugo@Tuguldurs-MacBook-Pro cis 25 % ./bank

Deposited: \$10

You have initial balance of \$10

===== BANK MENU =====

1. Deposit Funds

2. Make a Purchase

3. View Balance

4. Exit Program

Enter your choice: 2

Enter item name: coffee

> OUTLINE

> TIMELINE

0 0 JavaScript Debug Terminal (cis 25)

EXPLORER

CIS 25

.vscode

launch.json

bank

module8.cpp

transactions.txt

example.cpp

launch.json

module8.cpp

transactions.txt

transactions.txt

1 Deposit: \$10

2

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

tugo@Tuguldurs-MacBook-Pro cis 25 % ./bank

Deposited: \$10

You have initial balance of \$10

===== BANK MENU =====

1. Deposit Funds

2. Make a Purchase

3. View Balance

4. Exit Program

Enter your choice: 2

Enter item name: coffee

Enter cost: 5

> OUTLINE

> TIMELINE

0 0 0 JavaScript Debug Terminal (cis 25)

▼ CIS 25

▼ .vscode

{ } launch.json

≡ bank

🔗 module8.cpp

≡ transactions.txt

> OUTLINE

> TIMELINE

≡ transactions.txt

1 Deposit: \$10

2 Purchase - coffee: \$5

3

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

tugo@Tuguldurs-MacBook-Pro cis 25 % ./bank

1. Deposit Funds

2. Make a Purchase

3. View Balance

4. Exit Program

Enter your choice: 2

Enter item name: coffee

Enter cost: 5

Purchased coffee for \$5

===== BANK MENU =====

1. Deposit Funds

2. Make a Purchase

3. View Balance

4. Exit Program

Enter your choice:

0 0 JavaScript Debug Terminal (cis 25)

The image shows a Visual Studio Code editor window with a dark theme. The Explorer sidebar on the left shows a project named 'CIS 25' with files: '.vscode', 'launch.json', 'bank', 'module8.cpp', and 'transactions.txt'. The 'transactions.txt' file is selected and its content is displayed in the main editor area. The content of 'transactions.txt' is:

```
1 Deposit: $10
2 Purchase - coffee: $5
3 Deposit: $100
4
```

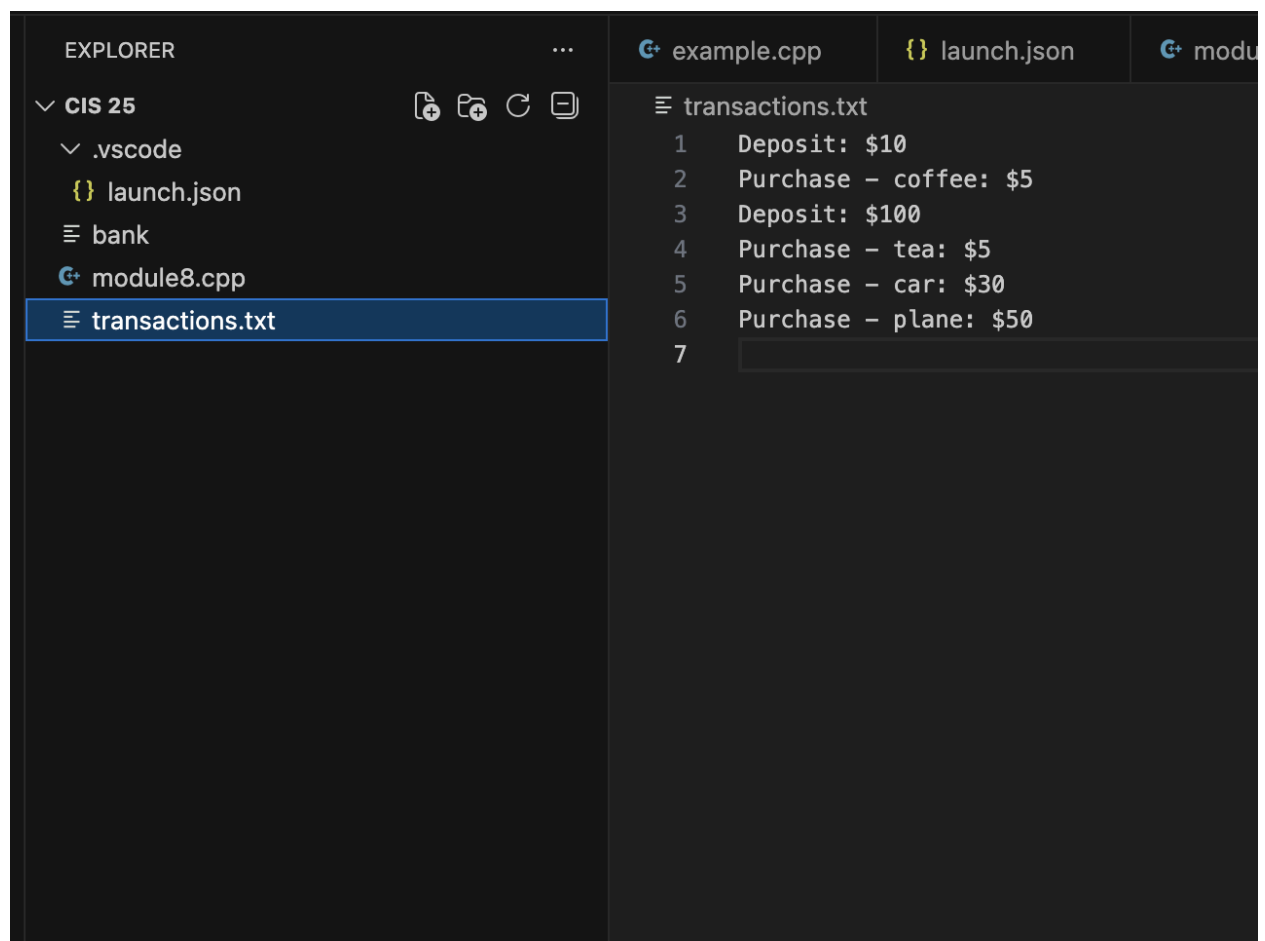
Below the editor, the 'TERMINAL' tab is active, showing the output of running the program. The prompt is 'tugo@Tuguldurs-MacBook-Pro cis 25 % ./bank'. The output is:

```
===== BANK MENU =====
1. Deposit Funds
2. Make a Purchase
3. View Balance
4. Exit Program
Enter your choice: 1
Enter amount to deposit: 100
Deposited: $100

===== BANK MENU =====
1. Deposit Funds
2. Make a Purchase
3. View Balance
4. Exit Program
Enter your choice: █
```

At the bottom of the window, the status bar shows '0 0 0 JavaScript Debug Terminal (cis 25)'.

Repeat the process...



Showing that the code runs:

The screenshot shows the Visual Studio Code editor with the following components:

- EXPLORER:** A file tree on the left showing a project named 'cis 25' containing files like 'launch.json', 'bank', 'module8.cpp', and 'transactions.txt'.
- EDITOR:** The main workspace showing 'module8.cpp' with C++ code for a 'BankAccount' class. The code includes headers for `<iostream>`, `<fstream>`, and `<string>`, and uses the `std` namespace. It defines a `BankAccount` class with a private `balance` attribute and public methods `deposit` and `makePurchase`.
- TERMINAL:** A terminal window at the bottom showing the execution of the program. The output includes the initial balance of \$10 and a menu for depositing funds or making purchases.

```
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 = 0.0;
13     }
14
15     void deposit(double amount) {
16         balance += amount;
17         cout << "Deposited: $" << amount << endl;
18         saveTransaction("Deposit", amount);
19     }
20
21     void makePurchase(string item, double cost) {
22         if (cost > balance) {
23             cout << "Insufficient funds for " << item << endl;
24         }
25     }
26 }
```

Terminal Output:

```
tugoeTuguldurs-MacBook-Pro cis 25 % ./bank
Deposited: $10
You have initial balance of $10

===== BANK MENU =====
1. Deposit Funds
2. Make a Purchase
3. View Balance
4. Exit Program
Enter your choice: 
```