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# Work on project. Stage 4/4: Advanced

Project: Simple Banking System

■ Hard ② ③ 31 minutes

## **Description**

You have created the foundation of our banking system. Now let's take the opportunity to deposit money into an account, make transfers and close an account if necessary.

✓ Results ordering ✓ Basic DELETE statement

2 / 2 Prerequisites

Now your menu should look like this:

```
1. Balance
2. Add income
3. Do transfer
4. Close account
5. Log out
0. Exit
```

If the user asks for Balance, you should read the balance of the account from the database and output it into the console.

Add income item should allow us to deposit money to the account.

Do transfer item should allow transferring money to another account. You should handle the following errors:

- If the user tries to transfer more money than he/she has, output: "Not enough money!"
- If the user tries to transfer money to the same account, output the following message: "You can't transfer money to the same
- If the receiver's card number doesn't pass the Luhn algorithm, you should output: "Probably you made mistake in the card number. Please try again!"
- If the receiver's card number doesn't exist, you should output: "Such a card does not exist."
- If there is no error, ask the user how much money they want to transfer and make the transaction.

If the user chooses the Close an account item, you should delete that account from the database.

#### **Examples**

The symbol > represents the user input. Notice that it's not a part of the input.

#### Example 1:

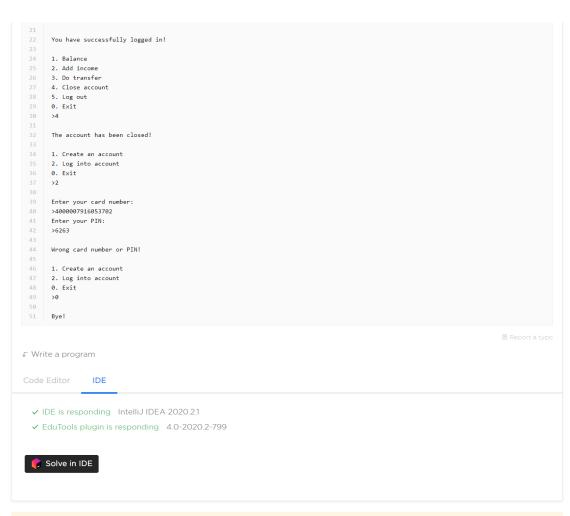
```
1. Create an account
     2. Log into account
      Your card have been created
      Your card number:
8 4000009455296122
     Your card PIN:
     1. Create an account
13 2. Log into account
     0. Exit
     Your card number:
4000003305160034
      Your card PIN:
     5639
     1. Create an account
24
      2. Log into account
     0. Exit
      Enter your card number:
      >4000009455296122
      Enter your PIN:
     You have successfully logged in!
     1. Balance
     2. Add income
      3. Do transfer
     4. Close account
     5. Log out
      0. Exit
      Enter income:
      >10000
      Income was added!
      3. Do transfer
```

```
4. Close account
     5. Log out
     0. Exit
     >1
     Balance: 10000
56
57 1. Balance
     3. Do transfer
60
     4. Close account
     5. Log out
     0. Exit
     >3
     Enter card number:
     >4000003305160035
     Probably you made mistake in the card number. Please try again!
70 1. Balance
71 2. Add inco
    2. Add income
     3. Do transfer
     4. Close account
     5. Log out
     0. Exit
     >3
     Transfer
     Enter card number:
80
     >4000003305061034
     Such a card does not exist.
83 1. Balance
84
    2. Add income
    3. Do transfer
     4. Close account
     5. Log out
0. Exit
88
90
91
     Transfer
     Enter card number:
     >4000003305160034
     Enter how much money you want to transfer:
     >15000
     Not enough money!
98 1. Balance
99 2. Add income
100
     3. Do transfer
101 4. Close account
102 5. Log out
103 0. Exit
104 >3
105
106
     Transfer
107
     Enter card number:
115 3. Do transfer
116 4. Close account
117 5. Log out
118 0. Exit
120
121 Balance: 5000
123 1. Balance
124 2. Add income
3. Do transfer4. Close account
127 5. Log out
128 0. Exit
130 >0
131 Bye!
```

### Example 2:

```
1. Create an account
2. Log into account
3. 0. Exit
4. 21

7. Your card has been created
7. Your card number:
8. 4000007916053702
9. Your card PIN:
10. 6263
11. Create an account
13. 2. Log into account
14. 0. Exit
15. 22
16. Enter your card number:
18. >4000007916053702
19. Enter your Card number:
18. >4000007916053702
19. Enter your PIN:
20. >6263
```



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