In [1]:
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class BankAccount:
    def intro(self, account_number, pin, balance=0):
        self.account_number = account_number
        self.pin = pin
        self.balance = balance

    def deposit(self, amount):
        self.balance += amount
        print(f"Amount {amount} deposited successfully.")
        self.display_balance()

    def withdraw(self, amount):
        if amount > self.balance:
            print("Insufficient funds!")
        else:
            self.balance -= amount
            print( {amount}, "is withdrawn successfully.")
            self.display_balance()


    def display_balance(self):
        print(f"Current balance: {self.balance}")

def login(accounts):
    while True:
        account_number = input("Enter account number: ")
        pin = input("Enter PIN: ")

        if account_number in accounts and pin == accounts[account_number][
            print("Login successful!")
            return accounts[account_number]
        else:
            print("Invalid account number or PIN. Please try again.")

def transfer_funds(sender, receiver, amount):
    if sender['balance'] >= amount:
        sender['balance'] -= amount
        receiver['balance'] += amount
        print(f"Transfer of {amount} successful.")
    else:
        print("Insufficient funds for transfer.")

def main():
    accounts = {
        '123456': {'pin': '1234', 'balance': 1000},
        '654321': {'pin': '4321', 'balance': 500}
    }

    user = login(accounts)

    while True:
        print("\nChoose an option:")
        print("1. Deposit")
        print("2. Withdraw")

        print("3. Transfer Funds")
        print("4. Exit")

        choice = input("Enter your choice: ")

        if choice == "1":
```

```
            amount = float(input("Enter amount to deposit: "))
            print("The amount",amount," is deposited successfully")
        elif choice == "2":
            amount = float(input("Enter amount to withdraw: "))
            print("The amount",amount," is withdraw successfully")

        elif choice == "3":
            receiver_account = input("Enter receiver's account number: ")
            if receiver_account in accounts:
                amount = float(input("Enter amount to transfer: "))
                transfer_funds(user, accounts[receiver_account], amount)
            else:
                print("Receiver's account not found.")
        elif choice == "4":
            print("Thank you for banking with us!")
            break
        else:
            print("Invalid choice. Please try again.")

if __name__ == "__main__":
    main()
```

```
Enter account number: 123456
Enter PIN: 1234
Login successful!

Choose an option:
1. Deposit
2. Withdraw
3. Transfer Funds
4. Exit
Enter your choice: 1
Enter amount to deposit: 1500
The amount 1500.0  is deposited successfully

Choose an option:
1. Deposit
2. Withdraw
3. Transfer Funds
4. Exit
Enter your choice: 2
Enter amount to withdraw: 500
The amount 500.0  is withdraw successfully

Choose an option:
1. Deposit
2. Withdraw
3. Transfer Funds
4. Exit
Enter your choice: 3
Enter receiver's account number: 654321
Enter amount to transfer: 400
Transfer of 400.0 successful.

Choose an option:
1. Deposit
2. Withdraw
3. Transfer Funds
4. Exit
Enter your choice: 65231
Invalid choice. Please try again.

Choose an option:
1. Deposit
2. Withdraw
3. Transfer Funds
4. Exit
Enter your choice: 3
Enter receiver's account number: 2341
Receiver's account not found.

Choose an option:
1. Deposit
2. Withdraw
3. Transfer Funds
4. Exit
Enter your choice: 4
Thank you for banking with us!
```