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import time

class BankAccount:

    def __init__(self, account_holder, initial_balance=0, transaction_pin=None):
        self.account_holder = account_holder
        self.balance = initial_balance
        self.transaction_pin = transaction_pin
        self.transaction_pin_attempts = 0  # Initialize transaction PIN attempts
        self.transaction_history = []  # List to store transaction history

        # Set global maximum withdrawal amount
        global MAX_WITHDRAWAL_AMOUNT
        MAX_WITHDRAWAL_AMOUNT = 10000

    def deposit(self, amount):
        if amount > 0:
            self.balance += amount
            self.transaction_history.append(f"Deposited {amount} Rs. New balance: {self.balance}")
        else:
            raise ValueError("Deposit amount must be greater than zero.")

    def withdraw(self, amount):

        # Check if transaction PIN is set
        if self.transaction_pin is None:
            print("transaction PIN is not set. Please set your transaction PIN.")
            return

        # Check if withdrawal amount is valid
        if 0 < amount <= self.balance:
            # Check if withdrawal amount exceeds maximum limit
            if amount <= MAX_WITHDRAWAL_AMOUNT and self.validate_transaction_pin():
                self.balance -= amount
                print(f"Withdraw {amount} Rs. New balance: {self.balance}")
                self.transaction_history.append(f"Withdraw {amount} Rs. New balance: {self.balance}")
            else:
                self.transaction_pin_attempts += 1
                if self.transaction_pin_attempts < 3:
                    print("Invalid PIN.")
                    print("Chances Left : ", 3 - self.transaction_pin_attempts)
                    return
                else:
                    print("Your account is locked. Please try again after 30 seconds.")
                    time.sleep(30)

        else:
            self.amount_attempts += 1
            if self.amount_attempts < 3:
                print("Withdrawal amount exceeds transaction limit")
                print("Chances Left : ", 3 - self.amount_attempts)
                return

    def check_balance(self):
        print(f"Current balance for {self.account_holder}: {self.balance}")

    def validate_transaction_pin(self):
        entered_pin = input("Enter your Transaction Pin  ")
        return entered_pin == self.transaction_pin

    def change_transaction_pin(self, new_transaction_pin):
        if self.validate_transaction_pin():
            self.transaction_pin = new_transaction_pin
            print("Transaction PIN changed successfully.")
        else:
            raise ValueError("Invalid PIN. PIN not changed.")

    def get_transaction_history(self):
        return [*self.transaction_history]


def main():
```

```
        print("Welcome to Our Bank!")
        try:
            account_holder = input("Enter account holder's name: ")
            initial_balance = float(input("Enter initial balance: "))
            transaction_pin = input("Set your Transaction PIN: ")

            user_account = BankAccount(account_holder, initial_balance, transaction_pin)

            flag = True
            while flag:
                print("\n Select an option.")
                print("1. Deposit")
                print("2. Withdraw")
                print("3. Check Balance")
                print("4. Check Transaction History")
                print("5. Change Transaction PIN")
                print("6. Exit")

                choice = input("Enter option number: ")

                if choice == "1":
                    amount = float(input("Enter deposit amount: "))
                    do_transaction(user_account, "deposit", amount)
                elif choice == "2":
                    amount = float(input("Enter withdrawal amount: "))
                    do_transaction(user_account, "withdraw", amount)
                elif choice == "3":
                    user_account.check_balance()
                elif choice == "4":
                    print(*user_account.get_transaction_history())
                elif choice == "5":
                    new_pin = input("Enter new Transaction PIN: ")
                    user_account.change_transaction_pin(new_pin)
                elif choice == "6":
                    print("Thank you for using our bank services!")
                    flag = False
                else:
                    print("Invalid choice. Please select a valid option.")

        except ValueError as e:
            print(e)


    def do_transaction(account, transaction_type, amount):
        if transaction_type == "deposit":
            account.deposit(amount)
        elif transaction_type == "withdraw":
            account.withdraw(amount)
        else:
            raise ValueError("Invalid transaction type.")


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

```
Welcome to Our Bank!
Enter account holder's name: SANTANU
Enter initial balance: 15000
Set your Transaction PIN: 1235

 Select an option.
1. Deposit
2. Withdraw
3. Check Balance
4. Check Transaction History
5. Change Transaction PIN
6. Exit
Enter option number: 1
Enter deposit amount: 1000

 Select an option.
1. Deposit
2. Withdraw
3. Check Balance
4. Check Transaction History
5. Change Transaction PIN
6. Exit
Enter option number: 3
Current balance for SANTANU: 16000.0
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 Select an option.
1. Deposit
2. Withdraw
3. Check Balance
4. Check Transaction History
5. Change Transaction PIN
6. Exit
Enter option number: 2
Enter withdrawal amount: 3000
Enter your Transaction Pin  1235
Withdraw 3000.0 Rs. New balance: 13000.0

 Select an option.
1. Deposit
2. Withdraw
3. Check Balance
4. Check Transaction History
5. Change Transaction PIN
6. Exit
Enter option number: 4
Deposited 1000.0 Rs. New balance: 16000.0 Withdraw 3000.0 Rs. New balance: 13000.0

 Select an option.
1. Deposit
2. Withdraw
3. Check Balance
4. Check Transaction History
5. Change Transaction PIN
6. Exit
Enter option number: 5
Enter new Transaction PIN: 1238
Enter your Transaction Pin  1235
Transaction PIN changed successfully.
```