

```
import time
```

```
print("please insert your card")
```

```
time.sleep(5)
```

```
pin = 1234
```

```
balance = 1000
```

```
transaction_history = []
```

```
# PIN Verification
```

```
entered_pin = int(input("Enter your ATM PIN: "))
```

```
if entered_pin != pin:
```

```
    print("Incorrect PIN. Exiting.")
```

else:

while True:

print("\nATM Menu:")

print("1. Account Balance Inquiry")

print("2. Cash Withdrawal")

print("3. Cash Deposit")

print("4. PIN Change")

print("5. Transaction History")

print("6. Exit")

try:

```
choice = int(input("please enter your option "))
```

```
except:
```

```
    print("please enter valid option")
```

```
if choice == 1:
```

```
    # Account Balance Inquiry
```

```
    print(f"Your current balance is: ${balance}")
```

```
    transaction_history.append(f"Balance Inquiry: ${balance}")
```

```
elif choice == 2:
```

```
    # Cash Withdrawal
```

```
withdrawal_amount = int(input("Enter the amount to withdraw: "))
```

```
if withdrawal_amount > balance:
```

```
    print("Insufficient funds.")
```

```
else:
```

```
    balance -= withdrawal_amount
```

```
    print(f"You have withdrawn ${withdrawal_amount}. Your new balance is ${balance}.")
```

```
    transaction_history.append(f"Withdrawal: ${withdrawal_amount}")
```

```
elif choice == 3:
```

```
    # Cash Deposit
```

```
    deposit_amount = float(input("Enter the amount to deposit: "))
```

```
balance += deposit_amount
```

```
print(f"You have deposited ${deposit_amount}. Your new balance is ${balance}.")
```

```
transaction_history.append(f"Deposit: ${deposit_amount}")
```

```
elif choice == 4:
```

```
    # PIN Change
```

```
    new_pin = int(input("Enter your new PIN: "))
```

```
    confirm_pin = int(input("Confirm your new PIN: "))
```

```
    if new_pin == confirm_pin:
```

```
        pin = new_pin
```

```
        print("Your PIN has been successfully changed.")
```

```
transaction_history.append("PIN Changed")
```

```
else:
```

```
    print("PINs do not match. PIN not changed.")
```

```
elif choice == 5:
```

```
    # Transaction History
```

```
    print("Transaction History:")
```

```
    for tr in transaction_history:
```

```
        print(tr)
```

```
elif choice == 6:
```

```
# Exit
```

```
print("Thank you for using the ATM. Goodbye!")
```

```
break
```

```
else:
```

```
print("Invalid option. Please try again.")
```