```
pin = 1234
balance = 1000
transaction_history = []
# PIN Verification
entered_pin = int(input("Enter your 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")
          choice = int(input("Select an 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                    print(f"You have withdrawn $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
RTM. Goodbye!")
               break
          else:
```

print("Invalid option. Please try

again.")