```
Authentication successful!
1 - import java.util.ArrayList;
2 import java.util.List;
4 - class User (
       private String username;
      private String password;
       private List<Account> accounts;
       private List<Transaction> transactionHistory;
       public User(String username, String password) {
           this.username = username;
           this.password = password;
           this.accounts = new ArrayList();
                                                                                                                                                                                        CONTRACTOR
           this.transactionHistory = new ArrayList⇔();
14
       public String getUsername() (
           return username;
18
       public void setUsername(String username) {
           this.username = username;
      public String getPassword() {
           return password;
      public void setPassword(String password) (
```

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Authentication successful!
        public void setPassword(String password) (
            this.password = password;
30
        public List<Account> getAccounts() {
34
            return accounts;
36
37 -
        public List<Transaction> getTransactionHistory() {
38
           return transactionHistory:
40 }
41
42 class Account {
44 }
45
45 - class Transaction {
50 ~ class BankingSystem (
       private List(User) users;
       public BankingSystem() (
          users = new ArrayList<>();
      public void adduser(User user) {
```

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oublic void addUser(User user) (
                                                                                      Authentication successful!
58
            users.add(user);
59
60
        public User authenticateUser(String username, String password) {
            for (User user : users) (
                   (username.equals(user.getUsername()) 88 password.equals(user
                    .getPassword())) {
64
                    return user;
65
66
68
69
73 - public class OnlineBankingSystem {
        public static void main(string[] args) {
           BankingSystem bankingSystem = new BankingSystem();
           User user1 = new User("username1", "password1");
           bankingSystem.addUser(user1);
86
81
           User authenticatedUser = bankingSystem.authenticateUser("username1",
82
                "password1");
```

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65
                                                                                       Authentication successful!
66
67
68
69
73 - public class OnlineBankingSystem {
        public static void main(String[] args) {
           BankingSystem bankingSystem =
                                         new BankingSystem();
           User user1 = new User("username1", "password1");
           bankingSystem.addUser(user1);
79
           User authenticatedUser = bankingSystem.authenticateUser("username1",
82
                "password1"):
84
            if (authenticatedUser != null) {
                System.out.println("Authentication successful!");
85
86
            else (
                System.out.println("Authentication failed. Please check your
87
                    credentials.");
88
89
90
                                                                                                                                                                                             567
```