Window Help

BankAccount.java   UserManager.java ×

```java
1  package lab10;
2
3  import java.util.HashMap;
4  import java.util.Map;
5
6  public class UserManager {
7
8      // Mock user database (username, password) for simplicity
9      private static final Map<String, String> userDatabase = new HashMap<>();
10     private static final Map<String, String> emailDatabase = new HashMap<>();
11     private static final Map<String, String> phoneDatabase = new HashMap<>();
12
13     static {
14         // Populating mock databases for username/password, email/password, and phone/PIN
15         userDatabase.put("jose_doe", "password123");
16         emailDatabase.put("jose.doe@example.com", "password123");
17         phoneDatabase.put("123-456-7890", "1234"); // PIN for phone number authentication
18     }
19
20     // Method to authenticate by username and password
21     public boolean authenticate1(String username, String password) {
22         if (username == null || password == null) {
23             return false;
24         }
25         return password.equals(userDatabase.get(username));
26     }
27
28     // Overloaded method to authenticate by email and password
29     public boolean authenticate11(String email, String password) {
30         if (email == null || password == null) {
31             return false;
```

Outline ×

- lab10
  - UserManager
    - userDatabase : Map<String, String>
    - emailDatabase : Map<String, String>
    - phoneDatabase : Map<String, String>
    - {...}
    - authenticate1(String, String) : boolean
    - authenticate11(String, String) : boolean
    - authenticate(String, String) : boolean
    - main(String[]) : void

Javadoc Declaration Console ×

<terminated> UserManager [Java Application] C:\Users\josej\Downloads\spring-tool-suite-4-4.26.0.RELEASE-e4.33.0-win32.win32.x86_64\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86...

```
Username and Password Authentication:
Authentication successful!
Authentication failed.

Email and Password Authentication:
Authentication failed.
Authentication failed.
```

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BankAccount.java ×

```java
65      public String getAccountType() {
66          return accountType;
67      }
68
69      // Main method for testing the BankAccount class
70      public static void main(String[] args) {
71          // Creating a Checking Account with default constructor
72          BankAccount checkingAccount = new BankAccount();
73          checkingAccount.checkBalance();
74          checkingAccount.deposit(200);
75          checkingAccount.withdraw(50);
76          checkingAccount.checkBalance();
77
78          // Creating a Savings Account with initial deposit
79          BankAccount savingsAccount = new BankAccount("Savings", 500);
80          savingsAccount.checkBalance();
81          savingsAccount.deposit(300);
82          savingsAccount.deposit(100, "Check"); // Deposit by check
83          savingsAccount.withdraw(200);
84          savingsAccount.checkBalance();
85
86          // Creating an Account with a specific account type and no initial deposit
87          BankAccount customAccount = new BankAccount("Business");
88          customAccount.checkBalance();
89          customAccount.deposit(1000);
90          customAccount.withdraw(150);
91          customAccount.checkBalance();
92      }
93  }
94
95
96
```

Outline ×

- lab10
- BankAccount
  - accountType : String
  - balance : double
  - BankAccount()
  - BankAccount(String)
  - BankAccount(String, double)
  - deposit(double) : void
  - deposit(double, String) : void
  - withdraw(double) : void
  - checkBalance() : void
  - getAccountType() : String
  - main(String[]) : void

Javadoc   Declaration   Console ×

```
<terminated> BankAccount [Java Application] C:\Users\josej\Downloads\spring-tool-suite-4-4.26.0.RELEASE-e4.33.0-win32.win32.x86_64\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_6
Current balance: $0.0
Deposited $200.0 by cash.
Withdrew $50.0.
Current balance: $150.0
Current balance: $500.0
Deposited $300.0 by cash.
Deposited $100.0 by check.
Withdrew $200.0
```

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