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Package Explorer ×

- bankingapp-with-arrays [indium_javabootcamp-bat...
  - JRE System Library [JavaSE-17]
  - src
    - com.indium.bankingapp
      - BankingAppMain.java
    - com.indium.bankingapp.model
      - Account.java
    - com.indium.bankingapp.service
      - AccountService.java
      - AccountServiceArrImpl.java

BankingAppMain.java   Account.java   AccountService.java   AccountServiceArrImpl.java ×

```java
package com.indium.bankingapp.service;

import com.indium.bankingapp.model.Account;

public class AccountServiceArrImpl implements AccountService {
    private static final int MAX_ACCOUNTS = 10;
    private Account[] accounts = new Account[MAX_ACCOUNTS];
    private int totalAccounts = 0;

    @Override
    public boolean createAccount(Account account) {
        if (totalAccounts < MAX_ACCOUNTS) {
            accounts[totalAccounts++] = account;
            return true; // Account created successfully
        } else {
            System.out.println("Maximum number of accounts reached. Cannot create more acc
            return false; // Failed to create an account
        }
    }

    @Override
    public boolean updateAccount(int id, Account updatedAccount) {
        for (int i = 0; i < totalAccounts; i++) {
            if (accounts[i].getId() == id) {
                accounts[i] = updatedAccount;
                return true; // Account updated successfully
            }
        }
        return false; // Account not found
```

Task List ×

Find   All   Activate...

Connect Mylyn

Connect to your task and ALM tools
create a local task.

Outline ×

- com.indium.bankingapp.service
- AccountServiceArrImpl
  - MAX_ACCOUNTS : int
  - accounts : Account[]
  - totalAccounts : int
  - createAccount(Account) : boole
  - updateAccount(int, Account) : b
  - deleteAccount(int) : boolean
  - getAccount(int) : Account
  - getAllAccounts() : Account[]

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- ∨ ☞ > bankingapp-with-arrays [indium_javabootcamp-bato
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    - ∨ ⊞ > com.indium.bankingapp.service
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      - > ◪ AccountServiceArrImpl.java

◪ BankingAppMain.java   ◪ Account.java   ◪ AccountService.java   ◪ AccountServiceArrImpl.java ×

```java
31
32      @Override
33      public boolean deleteAccount(int id) {
34          for (int i = 0; i < totalAccounts; i++) {
35              if (accounts[i].getId() == id) {
36                  // Move all accounts after the deleted one one position forward
37                  for (int j = i; j < totalAccounts - 1; j++) {
38                      accounts[j] = accounts[j + 1];
39                  }
40                  totalAccounts--;
41                  return true; // Account deleted successfully
42              }
43          }
44          return false; // Account not found
45      }
46
47      @Override
48      public Account getAccount(int id) {
49          for (int i = 0; i < totalAccounts; i++) {
50              if (accounts[i].getId() == id) {
51                  return accounts[i]; // Return the account if found
52              }
53          }
54          return null; // account not found
55      }
56
57      @Override
58      public Account[] getAllAccounts() {
59          Account[] allAccounts = new Account[totalAccounts];
```

Task List ×

Find   ▸ All ▸ Activate...

ⓘ **Connect Mylyn**

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Outline ×

- ⊞ com.indium.bankingapp.service
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  - ⬚ᶠ MAX_ACCOUNTS : int
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