#### Assignment 5: Build a Java Console-based Banking App with the below functionalities using Arrays

- 1] Add Account
- 2] View All Accounts
- 3] View Account
- 4] Update Account
- 5] Delete Account
- 6] Exit

#### Folder structure:

- r 👼 > bankingapp-with-arrays [indium\_javabo
  - ▶ 

    → JRE System Library [JavaSE-17]
  - ▼ # > SCC
    - ▼ 

      B > com.indium.bankingapp
      - ▶ 🚜 > BankingAppMain.java
    - - Account.java
    - ▼ 

       com.indium.bankingapp.service
      - AccountService.java
      - AccountServiceArrImpl.java

# Add account:

```
1] Add Account
2] View All Accounts
3] View Account
4] Update Account
5] Deposit Amount
6] Withdraw Amount
7] Delete Account
8] Exit
Enter your choice: 1
Enter account number: 101
Enter account holder's name: vijay kumar
Enter initial balance: 1000
Account added successfully.
Account ID: 101
1] Add Account
2] View All Accounts
3] View Account
4] Update Account
5] Deposit Amount
6] Withdraw Amount
7] Delete Account
81 Exit
Enter your choice:
```

# Adding a new account with an existing account number:

- 1] Add Account
- 2] View All Accounts
- 3] View Account
- 4] Update Account
- 5] Deposit Amount
- 6] Withdraw Amount
- 7] Delete Account
- 8] Exit

Enter your choice: 1
Enter account number: 101

Account number already exists. Please choose a different account number.

Enter account number:

## **View All Accounts:**

- 1] Add Account
- 2] View All Accounts
- 3] View Account
- 4] Update Account
- 5] Deposit Amount
- 6] Withdraw Amount
- 7] Delete Account
- 8] Exit

Enter your choice: 2

All Accounts:

+		+	+
İ	Account Number	Account Holder	Account Balance
i	101	vijay kumar	\$1000.00
i	102		\$20000.00
i	103		\$30000.00
т			r

- 1] Add Account
- 2] View All Accounts
- 3] View Account
- 4] Update Account
- 5] Deposit Amount
- 6] Withdraw Amount
- 7] Delete Account
- 8] Exit

Enter your choice:

# **View Account by Account Number:**

```
1] Add Account
21 View All Accounts
31 View Account
4] Update Account
5] Deposit Amount
6] Withdraw Amount
7] Delete Account
8] Exit
Enter your choice: 3
Enter account number to view: 103
Account Number: 103
Account Holder: shemu
Account Balance: $30000.0
1] Add Account
2] View All Accounts
3] View Account
4] Update Account
5] Deposit Amount
6] Withdraw Amount
7] Delete Account
8] Exit
Enter your choice:
```

## **Update Account:**

```
Account Number: 103
Account Holder: shemu
Account Balance: $30000.0
1] Add Account
2] View All Accounts
3] View Account
4] Update Account
5] Deposit Amount
6] Withdraw Amount
7] Delete Account
81 Exit
Enter your choice: 4
Enter account number to update: 103
Update account holder's name: Shemu Bandi
Account updated successfully.
1] Add Account
2] View All Accounts
3] View Account
4] Update Account
5] Deposit Amount
6] Withdraw Amount
7] Delete Account
81 Exit
Enter your choice: 2
All Accounts:
| Account Number | Account Holder | Account Balance |
+----+
| 101
       | vijay kumar | $1000.00
| 102 | balaji | $20000.00 |
        | Shemu Bandi | $30000.00 |
```

## **Deposit Amount:**

```
1] Add Account
2] View All Accounts
3] View Account
4] Update Account
5] Deposit Amount
6] Withdraw Amount
7] Delete Account
8] Exit
Enter your choice: 5
Enter account number to deposit: 103
Enter Amount
50000
Deposit Amount: 50000.0
Current Balance: 80000.0
Amount successfully deposited
1] Add Account
2] View All Accounts
3] View Account
4] Update Account
5] Deposit Amount
6] Withdraw Amount
7] Delete Account
8] Exit
Enter your choice: 2
All Accounts:
```

#### **Withdrawal Amount**

Enter Amount 30000 Withdrawal Amoun Current Balance: Successful withd  1] Add Account 2] View All Acco 3] View Account 4] Update Accoun 5] Deposit Amoun 6] Withdraw Amou 7] Delete Accoun 8] Exit Enter your choic All Accounts:	t t t t t t t t t t  e: 6 mber to withdraw: 10  t: 30000.0 50000.0 rawal of money  unts t t t	
Account Number	Account Holder -+	Account Balance
101	vijay kumar -+	\$1000.00
	balaji  -+	
103	Shemu Bandi	\$50000.00

# If user withdrawal amount is higher:

```
1] Add Account
2] View All Accounts
3] View Account
4] Update Account
5] Deposit Amount
6] Withdraw Amount
7] Delete Account
8] Exit
Enter your choice: 6
Enter account number to withdraw: 103
Enter Amount
60000
Insufficient funds.
withdrawal failed
1] Add Account
2] View All Accounts
3] View Account
4] Update Account
5] Deposit Amount
6] Withdraw Amount
7] Delete Account
8] Exit
Enter your choice: 2
All Accounts:
| Account Number | Account Holder | Account Balance |
| 101
              | vijay kumar | $1000.00
              --+----
                          | $20000.00
| 102 | balaji
                                                ----
| 103
        | Shemu Bandi | $50000.00
```

#### **Delete Account**

- 1] Add Account
- 2] View All Accounts
- 3] View Account
- 4] Update Account
- 5] Deposit Amount
- 6] Withdraw Amount
- 7] Delete Account
- 8] Exit

Enter your choice: 7

Enter account number to delete: 102
Account deleted successfully.

- 1] Add Account
- 2] View All Accounts
- 3] View Account
- 4] Update Account
- 5] Deposit Amount
- 6] Withdraw Amount
- 7] Delete Account
- 8] Exit

Enter your choice: 2

All Accounts:

i	Account Number	Account Holder	Account Balance
i	101	vijay kumar	\$1000.00
li	103	Shemu Bandi	\$50000.00