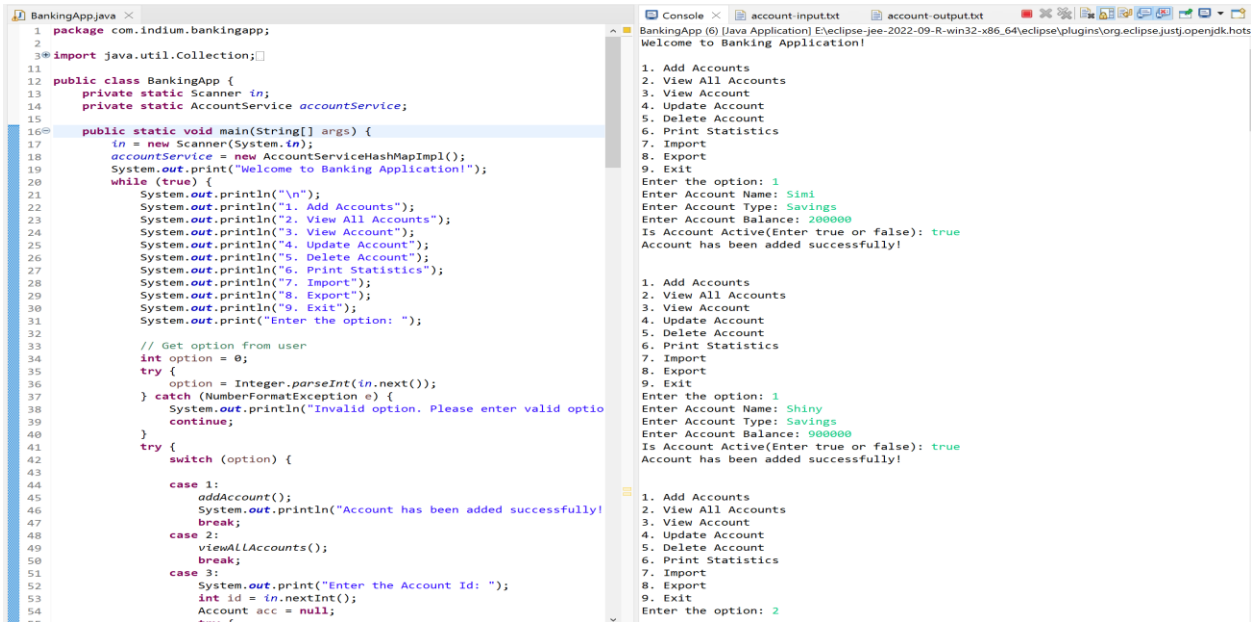
Banking App Program using Collections with Import & Export Screenshots

1. Add Accounts



BankingApp.java

```
package com.indium.bankingapp;

import java.util.Collection;

public class BankingApp {
    private static Scanner in;
    private static AccountService accountService;

    public static void main(String[] args) {
        in = new Scanner(System.in);
        accountService = new AccountServiceHashMapImpl();
        System.out.print("Welcome to Banking Application!");
        while (true) {
            System.out.println("\n");
            System.out.println("1. Add Accounts");
            System.out.println("2. View All Accounts");
            System.out.println("3. View Account");
            System.out.println("4. Update Account");
            System.out.println("5. Delete Account");
            System.out.println("6. Print Statistics");
            System.out.println("7. Import");
            System.out.println("8. Export");
            System.out.println("9. Exit");
            System.out.print("Enter the option: ");

            // Get option from user
            int option = 0;
            try {
                option = Integer.parseInt(in.next());
            } catch (NumberFormatException e) {
                System.out.println("Invalid option. Please enter valid optio
                continue;
            }
            try {
                switch (option) {

                case 1:
                    addAccount();
                    System.out.println("Account has been added successfully!
                    break;
                case 2:
                    viewAllAccounts();
                    break;
                case 3:
                    System.out.print("Enter the Account Id: ");
                    int id = in.nextInt();
                    Account acc = null;
```

Console — account-input.txt — account-output.txt

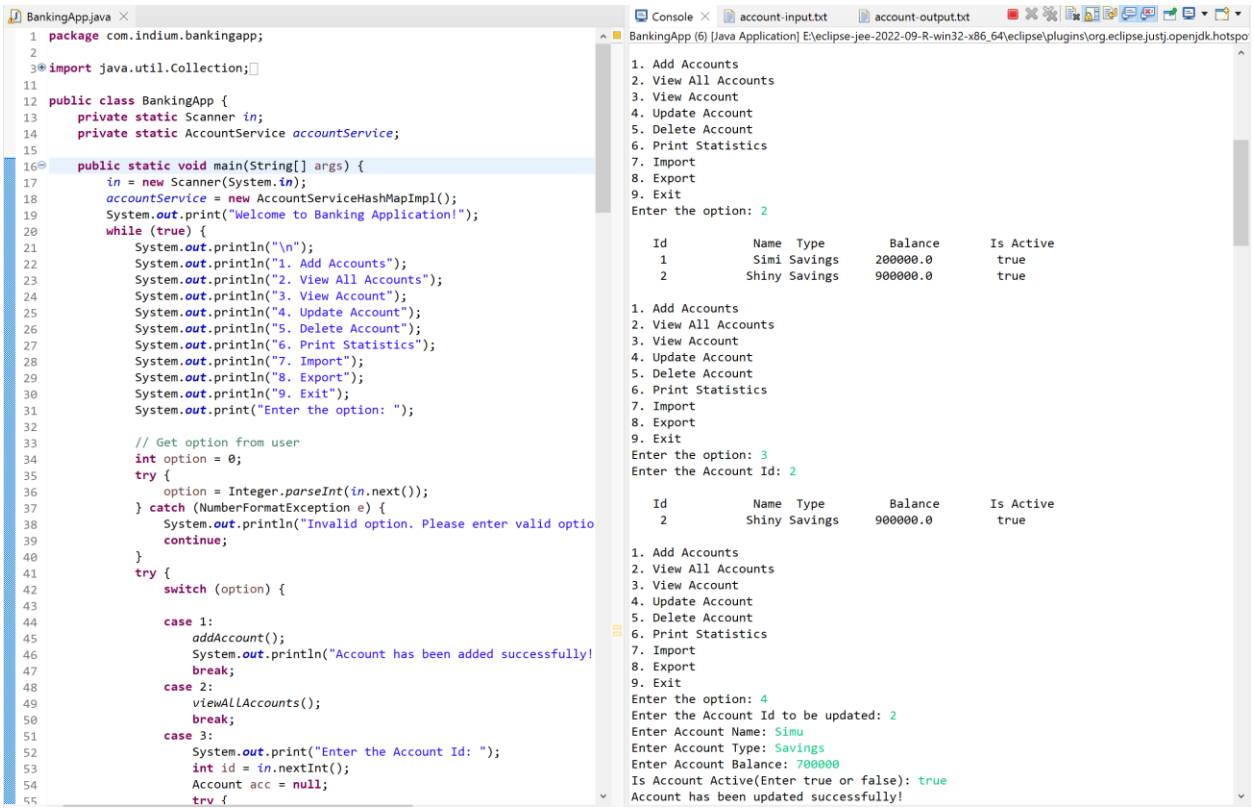
```
BankingApp (6) [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hots
Welcome to Banking Application!

1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 1
Enter Account Name: Simi
Enter Account Type: Savings
Enter Account Balance: 200000
Is Account Active(Enter true or false): true
Account has been added successfully!


1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 1
Enter Account Name: Shiny
Enter Account Type: Savings
Enter Account Balance: 900000
Is Account Active(Enter true or false): true
Account has been added successfully!


1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 2
```

2. View All Accounts, View Account & Update Account



BankingApp.java

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package com.indium.bankingapp;

import java.util.Collection;

public class BankingApp {
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    private static AccountService accountService;

    public static void main(String[] args) {
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            System.out.println("5. Delete Account");
            System.out.println("6. Print Statistics");
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            System.out.println("8. Export");
            System.out.println("9. Exit");
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            try {
                option = Integer.parseInt(in.next());
            } catch (NumberFormatException e) {
                System.out.println("Invalid option. Please enter valid optio
                continue;
            }
            try {
                switch (option) {

                case 1:
                    addAccount();
                    System.out.println("Account has been added successfully!
                    break;
                case 2:
                    viewAllAccounts();
                    break;
                case 3:
                    System.out.print("Enter the Account Id: ");
                    int id = in.nextInt();
                    Account acc = null;
                    try {
```

Console — account-input.txt — account-output.txt

```
BankingApp (6) [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspo

1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 2

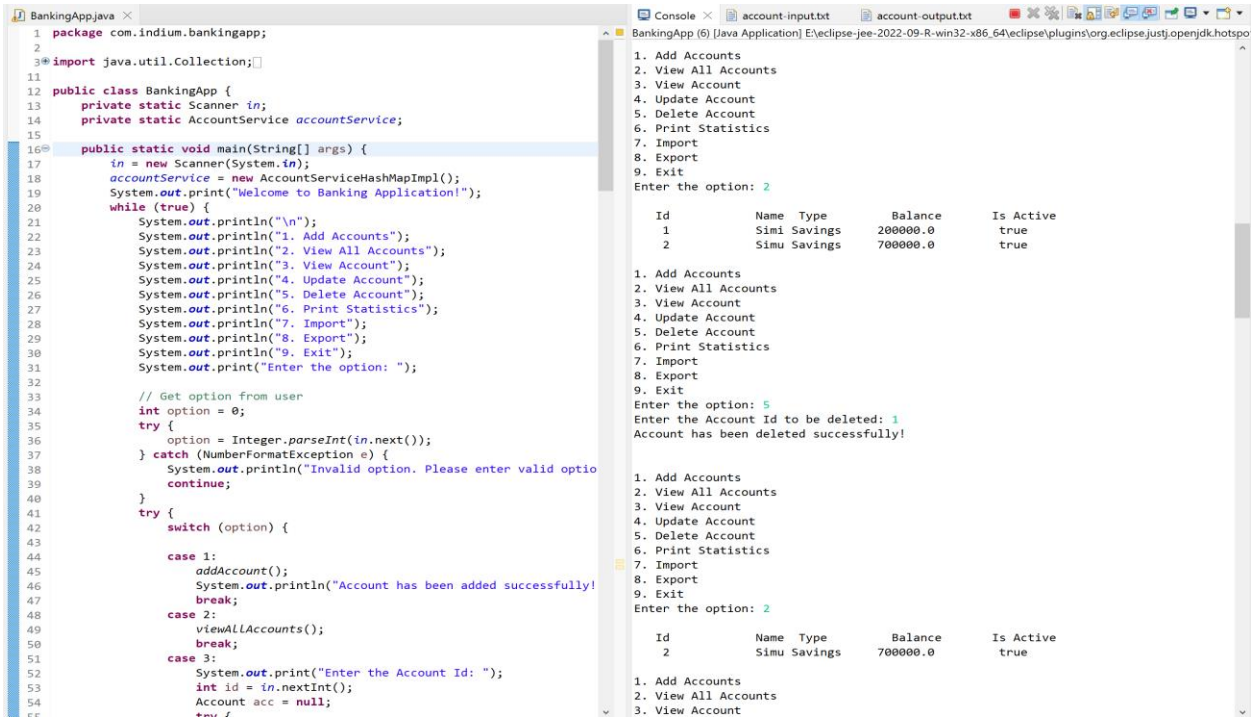
   Id            Name  Type         Balance       Is Active
    1            Simi Savings     200000.0         true
    2           Shiny Savings     900000.0         true

1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 3
Enter the Account Id: 2

   Id            Name  Type         Balance       Is Active
    2           Shiny Savings     900000.0         true

1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 4
Enter the Account Id to be updated: 2
Enter Account Name: Simu
Enter Account Type: Savings
Enter Account Balance: 700000
Is Account Active(Enter true or false): true
Account has been updated successfully!
```

3. Delete Account



BankingApp.java

```
package com.indium.bankingapp;

import java.util.Collection;

public class BankingApp {
    private static Scanner in;
    private static AccountService accountService;

    public static void main(String[] args) {
        in = new Scanner(System.in);
        accountService = new AccountServiceHashMapImpl();
        System.out.print("Welcome to Banking Application!");
        while (true) {
            System.out.println("\n");
            System.out.println("1. Add Accounts");
            System.out.println("2. View All Accounts");
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            System.out.println("6. Print Statistics");
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            System.out.println("9. Exit");
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            // Get option from user
            int option = 0;
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            } catch (NumberFormatException e) {
                System.out.println("Invalid option. Please enter valid optio
                continue;
            }
            try {
                switch (option) {

                case 1:
                    addAccount();
                    System.out.println("Account has been added successfully!
                    break;
                case 2:
                    viewAllAccounts();
                    break;
                case 3:
                    System.out.print("Enter the Account Id: ");
                    int id = in.nextInt();
                    Account acc = null;
```

Console | account-input.txt | account-output.txt

```
BankingApp (6) [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspo
1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 2

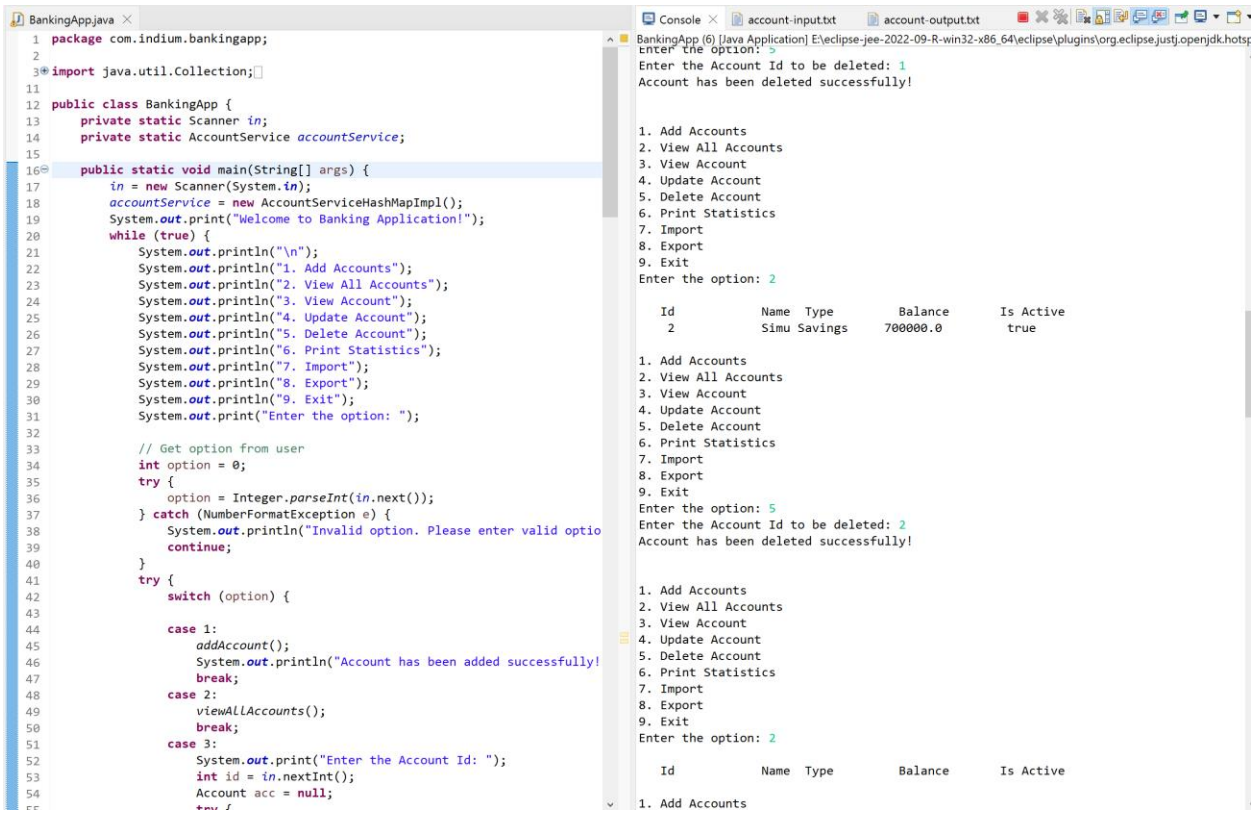
   Id            Name  Type         Balance       Is Active
    1            Simi Savings     200000.0         true
    2            Simu Savings     700000.0         true

1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 5
Enter the Account Id to be deleted: 1
Account has been deleted successfully!


1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 2

   Id            Name  Type         Balance       Is Active
    2            Simu Savings     700000.0         true

1. Add Accounts
2. View All Accounts
3. View Account
```



BankingApp.java

```
package com.indium.bankingapp;

import java.util.Collection;

public class BankingApp {
    private static Scanner in;
    private static AccountService accountService;

    public static void main(String[] args) {
        in = new Scanner(System.in);
        accountService = new AccountServiceHashMapImpl();
        System.out.print("Welcome to Banking Application!");
        while (true) {
            System.out.println("\n");
            System.out.println("1. Add Accounts");
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            System.out.println("3. View Account");
            System.out.println("4. Update Account");
            System.out.println("5. Delete Account");
            System.out.println("6. Print Statistics");
            System.out.println("7. Import");
            System.out.println("8. Export");
            System.out.println("9. Exit");
            System.out.print("Enter the option: ");

            // Get option from user
            int option = 0;
            try {
                option = Integer.parseInt(in.next());
            } catch (NumberFormatException e) {
                System.out.println("Invalid option. Please enter valid optio
                continue;
            }
            try {
                switch (option) {

                case 1:
                    addAccount();
                    System.out.println("Account has been added successfully!
                    break;
                case 2:
                    viewAllAccounts();
                    break;
                case 3:
                    System.out.print("Enter the Account Id: ");
                    int id = in.nextInt();
                    Account acc = null;
```

Console | account-input.txt | account-output.txt

```
BankingApp (6) [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotsp
Enter the option: 5
Enter the Account Id to be deleted: 1
Account has been deleted successfully!


1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 2

   Id            Name  Type         Balance       Is Active
    2            Simu Savings     700000.0         true

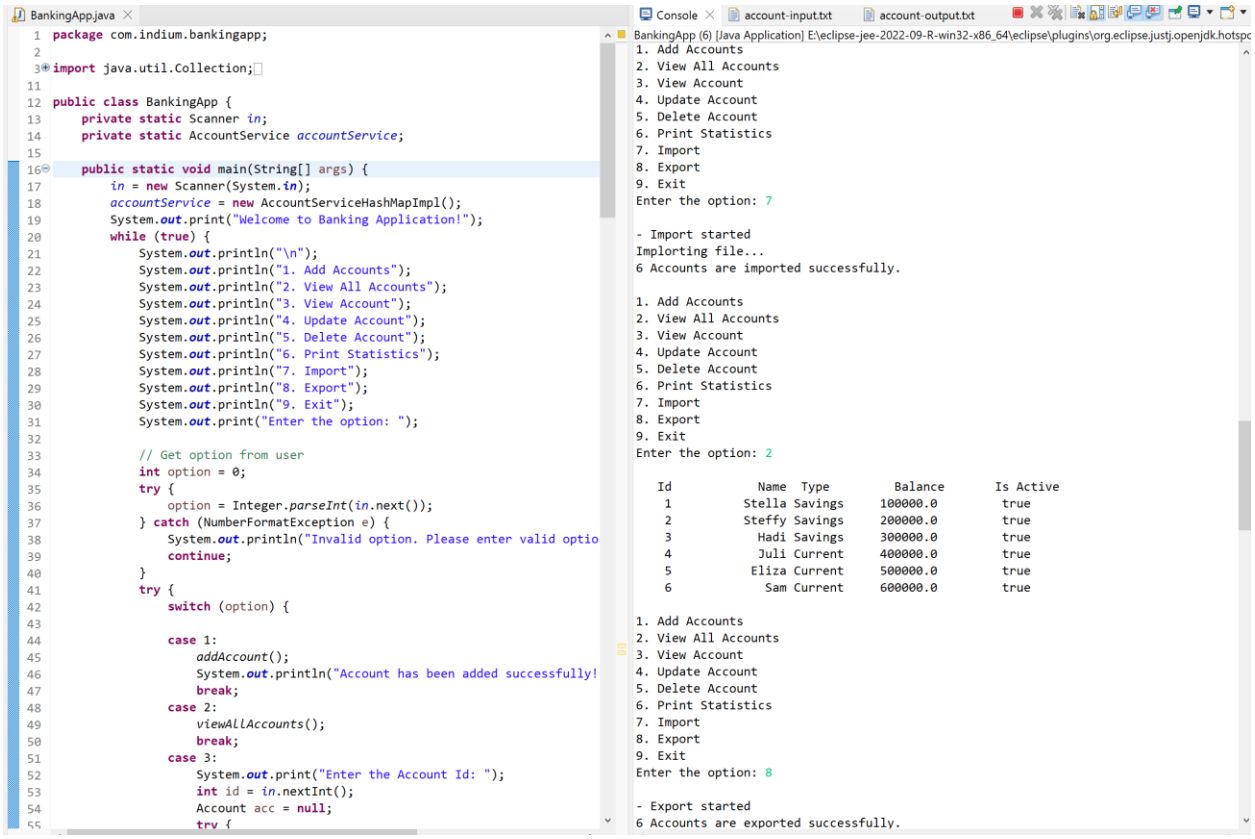
1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 5
Enter the Account Id to be deleted: 2
Account has been deleted successfully!


1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 2

   Id            Name  Type         Balance       Is Active

1. Add Accounts
```

4. Import & Export



BankingApp.java

```
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import java.util.Collection;

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    private static AccountService accountService;

    public static void main(String[] args) {
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        accountService = new AccountServiceHashMapImpl();
        System.out.print("Welcome to Banking Application!");
        while (true) {
            System.out.println("\n");
            System.out.println("1. Add Accounts");
            System.out.println("2. View All Accounts");
            System.out.println("3. View Account");
            System.out.println("4. Update Account");
            System.out.println("5. Delete Account");
            System.out.println("6. Print Statistics");
            System.out.println("7. Import");
            System.out.println("8. Export");
            System.out.println("9. Exit");
            System.out.print("Enter the option: ");

            // Get option from user
            int option = 0;
            try {
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            } catch (NumberFormatException e) {
                System.out.println("Invalid option. Please enter valid optio
                continue;
            }
            try {
                switch (option) {

                case 1:
                    addAccount();
                    System.out.println("Account has been added successfully!
                    break;
                case 2:
                    viewAllAccounts();
                    break;
                case 3:
                    System.out.print("Enter the Account Id: ");
                    int id = in.nextInt();
                    Account acc = null;
                    try {
```

Console — BankingApp (6) [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspc

```
1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 7

- Import started
Implorting file...
6 Accounts are imported successfully.

1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 2

   Id            Name  Type         Balance       Is Active
    1          Stella Savings     100000.0         true
    2          Steffy Savings     200000.0         true
    3           Hadi Savings     300000.0         true
    4           Juli Current     400000.0         true
    5          Eliza Current     500000.0         true
    6            Sam Current     600000.0         true

1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 8

- Export started
6 Accounts are exported successfully.
```

BankingApp.java

```
package com.indium.bankingapp;

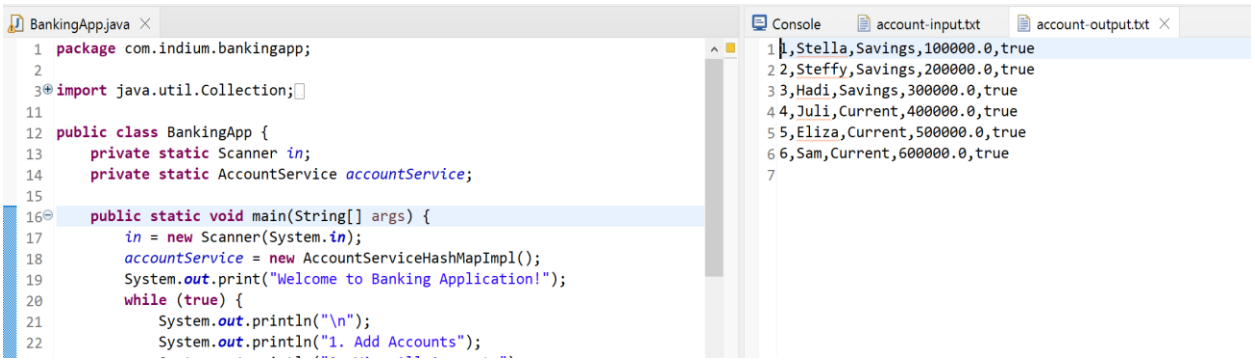
import java.util.Collection;

public class BankingApp {
    private static Scanner in;
    private static AccountService accountService;

    public static void main(String[] args) {
        in = new Scanner(System.in);
        accountService = new AccountServiceHashMapImpl();
        System.out.print("Welcome to Banking Application!");
        while (true) {
```

account-input.txt

```
1,Stella,Savings,100000,true
2,Steffy,Savings,200000,true
3,Hadi,Savings,300000,true
4,Juli,Current,400000,true
5,Eliza,Current,500000,true
6,Sam,Current,600000,true
```



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    public static void main(String[] args) {
        in = new Scanner(System.in);
        accountService = new AccountServiceHashMapImpl();
        System.out.print("Welcome to Banking Application!");
        while (true) {
            System.out.println("\n");
            System.out.println("1. Add Accounts");
```
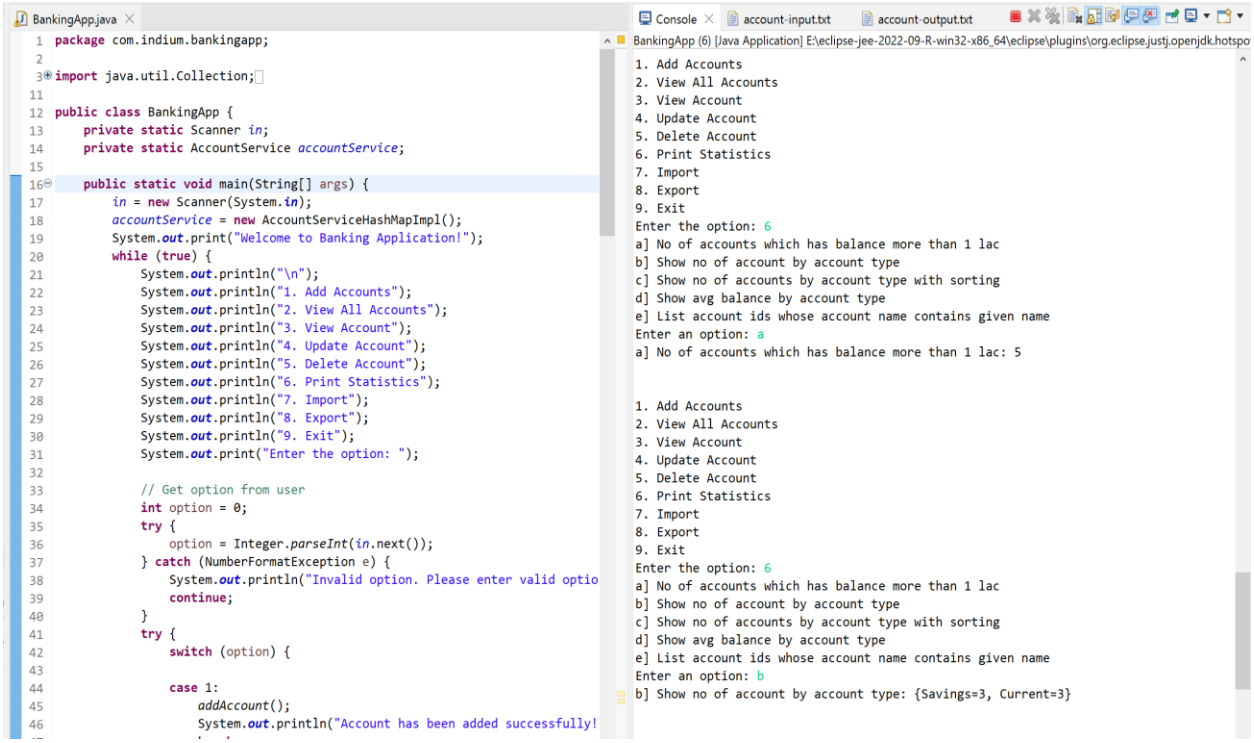

account-output.txt

```
1,Stella,Savings,100000.0,true
2,Steffy,Savings,200000.0,true
3,Hadi,Savings,300000.0,true
4,Juli,Current,400000.0,true
5,Eliza,Current,500000.0,true
6,Sam,Current,600000.0,true
```

5. Print Statistics & Exit



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            System.out.print("Enter the option: ");

            // Get option from user
            int option = 0;
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            }
            try {
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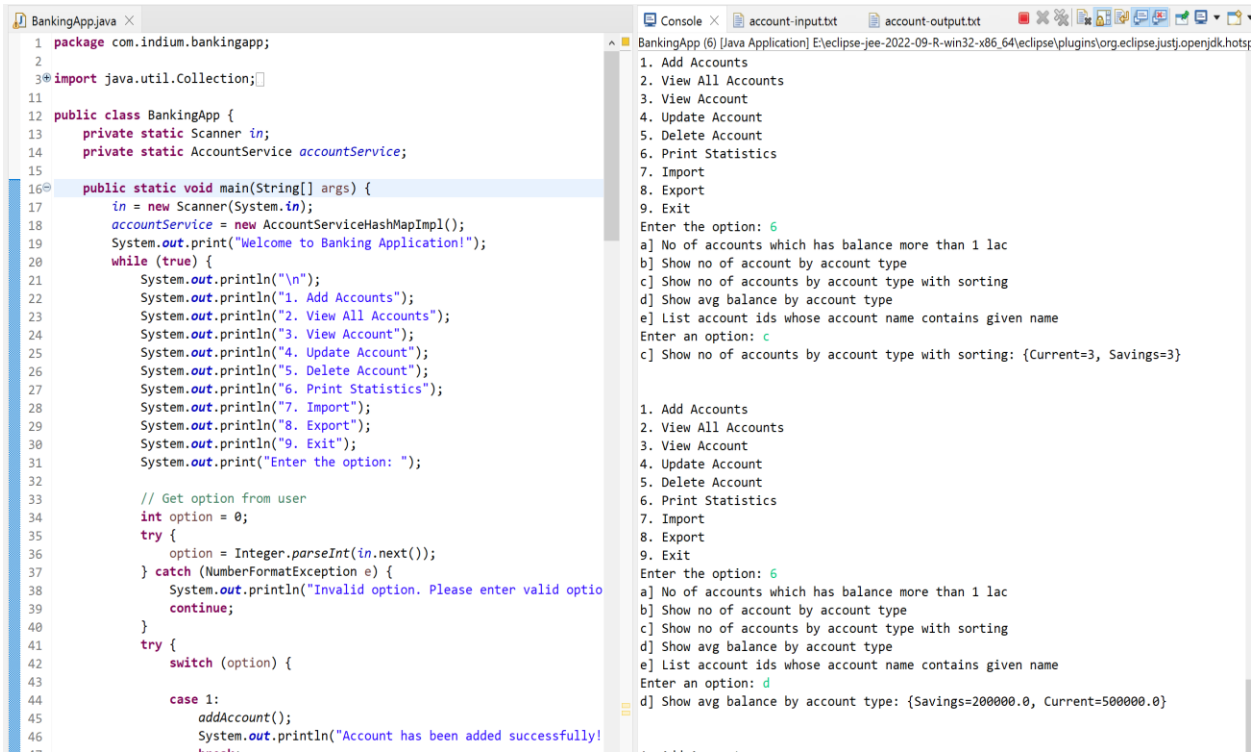
                case 1:
                    addAccount();
                    System.out.println("Account has been added successfully!
```

Console | account-input.txt | account-output.txt

BankingApp (6) [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspo

```
1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 6
a] No of accounts which has balance more than 1 lac
b] Show no of account by account type
c] Show no of accounts by account type with sorting
d] Show avg balance by account type
e] List account ids whose account name contains given name
Enter an option: a
a] No of accounts which has balance more than 1 lac: 5


1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 6
a] No of accounts which has balance more than 1 lac
b] Show no of account by account type
c] Show no of accounts by account type with sorting
d] Show avg balance by account type
e] List account ids whose account name contains given name
Enter an option: b
b] Show no of account by account type: {Savings=3, Current=3}
```



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            System.out.println("4. Update Account");
            System.out.println("5. Delete Account");
            System.out.println("6. Print Statistics");
            System.out.println("7. Import");
            System.out.println("8. Export");
            System.out.println("9. Exit");
            System.out.print("Enter the option: ");

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```

Console | account-input.txt | account-output.txt

BankingApp (6) [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotsp

```
1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 6
a] No of accounts which has balance more than 1 lac
b] Show no of account by account type
c] Show no of accounts by account type with sorting
d] Show avg balance by account type
e] List account ids whose account name contains given name
Enter an option: c
c] Show no of accounts by account type with sorting: {Current=3, Savings=3}


1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 6
a] No of accounts which has balance more than 1 lac
b] Show no of account by account type
c] Show no of accounts by account type with sorting
d] Show avg balance by account type
e] List account ids whose account name contains given name
Enter an option: d
d] Show avg balance by account type: {Savings=200000.0, Current=500000.0}
```

BankingApp.java

```java
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import java.util.Collection;

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    private static AccountService accountService;

    public static void main(String[] args) {
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        System.out.print("Welcome to Banking Application!");
        while (true) {
            System.out.println("\n");
            System.out.println("1. Add Accounts");
            System.out.println("2. View All Accounts");
            System.out.println("3. View Account");
            System.out.println("4. Update Account");
            System.out.println("5. Delete Account");
            System.out.println("6. Print Statistics");
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            System.out.println("9. Exit");
            System.out.print("Enter the option: ");

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                continue;
            }
            try {
                switch (option) {

                case 1:
                    addAccount();
                    System.out.println("Account has been added successfully!
                    break;
                case 2:
                    viewAllAccounts();
                    break;
                case 3:
                    System.out.print("Enter the Account Id: ");
                    int id = in.nextInt();
                    Account acc = null;
                    try {
```

Console | account-input.txt | account-output.txt

BankingApp (6) [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspo

```
Enter an option: d
d] Show avg balance by account type: {Savings=200000.0, Current=500000.0}


1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 6
a] No of accounts which has balance more than 1 lac
b] Show no of account by account type
c] Show no of accounts by account type with sorting
d] Show avg balance by account type
e] List account ids whose account name contains given name
Enter an option: e
Enter the name: Ste
e] List account ids whose account name contains given name: [1, 2]


1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option: 9
Thank you!!!


1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Import
8. Export
9. Exit
Enter the option:
```