# Banking App Program using Collections with Import & Export Screenshots

#### 1. Add Accounts

## 2. View All Accounts, View Account & Update Account

```
    ■ BankingApp.java ×
                                                                                                                                          BankingApp (6) [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspo
        package com.indium.bankingapp;
                                                                                                                                              1. Add Accounts
     3 mport java.util.Collection;□
                                                                                                                                              2. View All Accounts
                                                                                                                                             3. View Account
4. Update Account
   12 public class BankingApp {
               private static Scanner in;
private static AccountService accountService;
                                                                                                                                             5. Delete Account
                                                                                                                                             6. Print Statistics
7. Import
8. Export
             public static void main(String[] args) {
                      in = new Solnmen(System.in);

accountService = new AccountServiceHashMapImpl();

System.out.print("Welcome to Banking Application!");
                                                                                                                                             9. Exit
    18
                                                                                                                                              Enter the option: 2
                     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 Account");
    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.println("9. Exit");

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                                                                                                                                                  Id
                                                                                                                                                                         Name Type
                                                                                                                                                                                                         Balance
                                                                                                                                                                                                                                Is Active
                                                                                                                                                                       Simi Savings
Shiny Savings
                                                                                                                                                                                                     200000.0
                                                                                                                                                                                                                                 true
true
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                                                                                                                                             1. Add Accounts
                                                                                                                                             2. View All Accounts
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                                                                                                                                             4. Update Account
5. Delete Account
                                                                                                                                             6. Print Statistics
                                                                                                                                             7. Import
8. Export
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                            // Get option from user
int option = 0;
                                                                                                                                              9. Exit
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                                                                                                                                             Enter the option:
                                                                                                                                              Enter the Account Id: 2
                            trv {
                            option = Integer.parseInt(in.next());
} catch (NumberFormatException e) {
                                                                                                                                                  Id
                                                                                                                                                                                                         Balance
                                                                                                                                                                                                                               Is Active
                                                                                                                                                                       Shiny Savings
                                   System.out.println("Invalid option. Please enter valid optio
    38
                                    continue;
                                                                                                                                              1. Add Accounts
                                                                                                                                             2. View All Accounts
3. View Account
                            try {
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                                   switch (option) {
                                                                                                                                             4. Update Account
                                                                                                                                             5. Delete Account
6. Print Statistics
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                                          addAccount():
                                          System.out.println("Account has been added successfully!
                                                                                                                                              7. Import
                                                                                                                                             8. Export
                                                                                                                                             8. Export
9. Exit
Enter the option: 4
Enter the Account Id to be updated: 2
Enter Account Name: Simu
Enter Account Type: Savings
                                          break;
   48
                                   case 2:
                                         viewAllAccounts();
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                                         break;
                                   case 3:
                                         System.out.print("Enter the Account Id: ");
int id = in.nextInt();
Account acc = null;
                                                                                                                                              Enter Account Balance: 700000
                                                                                                                                             Is Account Active(Enter true or false): true
Account has been updated successfully!
```

### 3. Delete Account

```
© Console × 🖟 account-input.txt 🖟 account-output.txt 👅 × 💥 🚉 🖟 🖟 🗗 🗗 🗗 🕶 🗂 ▼

☑ BankingApp.java ×
                      package com.indium.bankingapp;
                                                                                                                                                                                                                                                                                                                                                              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
                    ● import java.util.Collection;
                      public class BankingApp {
   private static Scanner in;
   private static AccountService accountService;
                                   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("1. Add Accounts");
        System.out.println("3. View Account");
        System.out.println("5. Delete 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.println("9. Exit");
        System.out.println("8. Export");
        System.out.println("8. Export");
        System.out.println("6. Exit");
        System.
                                                                                                                                                                                                                                                                                                                                                               8. Export
                                                                                                                                                                                                                                                                                                                                                               9. Exit
                                                                                                                                                                                                                                                                                                                                                               Enter the option: 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                Name Type
Simi Savings
Simu Savings
                                                                                                                                                                                                                                                                                                                                                                         Id
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Balance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Is Active
                                                                                                                                                                                                                                                                                                                                                                            1 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       200000.0
                                                                                                                                                                                                                                                                                                                                                             1. Add Accounts
2. View All Accounts
3. View Account
4. Update Account
5. Delete Account
6. Print Statistics
7. Tracest
                                                                                                                                                                                                                                                                                                                                                               7. Import
                                                                                                                                                                                                                                                                                                                                                               8. Export
                                                                        // Get option from user
int option = 0;
                                                                                                                                                                                                                                                                                                                                                               9. Exit
                                                                                                                                                                                                                                                                                                                                                               Enter the option: 5
Enter the Account Id to be deleted: 1
Account has been deleted successfully!
                                                                     int oprion = v,
try {
    option = Integer.parseInt(in.next());
} catch (NumberFormatException e) {
    System.out.println("Invalid option. Please enter valid optio
    continue;
                                                                                                                                                                                                                                                                                                                                                             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
                                                                       try {
   switch (option) {
                                                                                       case 1:
   addAccount();
System.out.println("Account has been added successfully!
   break;
                                                                                                                                                                                                                                                                                                                                                               Enter the option: 2
                                                                                       case 2:
                                                                                                       e z:
viewALLAccounts();
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Name Type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Balance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Is Active
                                                                                                                                                                                                                                                                                                                                                                                                                                  Simu Savings 700000.0
                                                                                        case 3:
                                                                                                        s 3:
System.out.print("Enter the Account Id: ");
int id = in.nextInt();
Account acc = null;
+mv f
                                                                                                                                                                                                                                                                                                                                                             1. Add Accounts
2. View All Accounts
3. View Account
```

```
© Console X 🖟 account-input.txt 🕒 account-output.txt 🕒 🛎 💢 🎉 🎉 🖟 🗗 🗗 💆 🗗 🔁 🕶 📑 🔻
  package com.indium.bankingapp;
                                                                                                                                                       BankingApp (6) [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotsp
Enter the option: >
                                                                                                                                                      Enter the Account Id to be deleted: 1
Account has been deleted successfully!
  3⊕ import java.util.Collection;
12 public class BankingApp {
            private static Scanner in;
private static AccountService accountService;
                                                                                                                                                       1 Add Accounts
                                                                                                                                                       2. View All Accounts
                                                                                                                                                       3. View Account
            public static void main(String[] args) {
169
                                                                                                                                                       4. Update Account
                    in = new Scanner(System.in);
accountService = new AccountServiceHashMapImpl();
System.out.print("Welcome to Banking Application!");
                                                                                                                                                       5. Delete Account
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                                                                                                                                                       6. Print Statistics
                   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.println("9. Exit");

                                                                                                                                                       7. Import
8. Export
                                                                                                                                                       9. Exit
                                                                                                                                                       Enter the option: 2
                                                                                                                                                           Id
                                                                                                                                                                                    Name Type
                                                                                                                                                                                                                      Balance
                                                                                                                                                                                                                                               Is Active
                                                                                                                                                                                    Simu Savings
                                                                                                                                                                                                                  700000.0
                                                                                                                                                       1. Add Accounts
                                                                                                                                                      2. View All Accounts
3. View Account
                                                                                                                                                       4. Update Account
                                                                                                                                                      5. Delete Account
6. Print Statistics
                           // Get option from user
int option = 0;
                                                                                                                                                       7. Import
                                                                                                                                                       8. Export
                            try {
                                                                                                                                                      8. Export
9. Exit
Enter the option: 5
Enter the Account Id to be deleted: 2
Account has been deleted successfully!
                           try {
    option = Integer.parseInt(in.next());
} catch (NumberFormatException e) {
    System.out.println("Invalid option. Please enter valid option.")
                                   continue;
                           try {
    switch (option) {
                                                                                                                                                      1. Add Accounts
2. View All Accounts
                                                                                                                                                       3. View Account
                                  case 1:
                                                                                                                                                       4. Update Account
                                          addAccount();
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                                          System.out.println("Account has been added successfully!
                                                                                                                                                       5. Delete Account
                                                                                                                                                       6. Print Statistics
                                          break;
                                  case 2:
    viewAllAccounts();
                                                                                                                                                       8. Export
                                                                                                                                                       9. Exit
                                         break;
                                   case 3:
                                          System.out.print("Enter the Account Id: ");
                                                                                                                                                          Id
                                                                                                                                                                                  Name Type
                                                                                                                                                                                                                      Balance
                                                                                                                                                                                                                                              Is Active
                                          int id = in.nextInt();
Account acc = null;
+pu {
                                                                                                                                              v 1. Add Accounts
```

### 4. Import & Export

while (true) {

System.out.println("\n");

System.out.println("1. Add Accounts");

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```
    ■ BankingApp.java ×
   package com.indium.bankingapp;
                                                                                        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
   3 mport java.util.Collection;□
  12 public class BankingApp {
                                                                                        4. Undate Account
         private static Scanner in;
private static AccountService accountService;
                                                                                         5. Delete Account
                                                                                        6. Print Statistics
                                                                                         7. Import
         public static void main(String[] args) {
                                                                                        8. Export
              in = new Scanner(System.in);
accountService = new AccountServiceHashMapImpl();
                                                                                        9. Exit
                                                                                         Enter the option: 7
  18
              System.out.print("Welcome to Banking Application!");
  19
20
              while (true) {
    System.out.println("\n");
                                                                                         - Import started
                                                                                         Implorting file...
                 21
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                                                                                        6 Accounts are imported successfully.
                                                                                        1. Add Accounts
                                                                                        2. View All Accounts
3. View Account
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                                                                                        4. Update Account
                                                                                        5. Delete Account
6. Print Statistics
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                                                                                        7. Import
8. Export
                                                                                        9. Exit
                  // Get option from user
                                                                                         Enter the option: 2
                  int option = 0;
                  try {
    option = Integer.parseInt(in.next());
                                                                                                         Name Type
                                                                                                                            Balance
                                                                                                                                           Is Active
                                                                                                                          100000.0
                                                                                                       Stella Savings
                  } catch (NumberFormatException e) {
    System.out.println("Invalid option. Please enter valid option.")
                                                                                                       Steffy Savings
                                                                                                                                            true
                                                                                                         Hadi Savings
Juli Current
                                                                                                                           300000.0
                                                                                                                                            true
                      continue:
                                                                                                                                            true
                                                                                                        Eliza Current
                                                                                                                           500000.0
                                                                                                                                            true
                  try {
                      switch (option) {

    Add Accounts
    View All Accounts

                      case 1:
                          addAccount();
System.out.println("Account has been added successfully!
  45
46
                                                                                         3. View Account
                                                                                        4. Update Account
5. Delete Account
  47
                          break;
                                                                                         6. Print Statistics
                          viewAllAccounts();
  49
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51
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53
54
                          break;
                                                                                        8. Export
                                                                                         9. Exit
                          System.out.print("Enter the Account Id: "):
                                                                                        Enter the option: 8
                          int id = in.nextInt();
Account acc = null;
                                                                                        6 Accounts are exported successfully.
  BankingApp.java ×
                                                                                                                 Console
                                                                                                                               account-input.txt × account-output.txt
     1 package com.indium.bankingapp;
                                                                                                                   11,Stella,Savings,100000,true
                                                                                                                    2 2, Steffy, Savings, 200000, true
                                                                                                                    3 3, Hadi, Savings, 300000, true
      3⊕ import java.util.Collection;
                                                                                                                   44, Juli, Current, 400000, true
    11
    12 public class BankingApp {
                                                                                                                   55, Eliza, Current, 500000, true
              private static Scanner in;
     13
                                                                                                                   66, Sam, Current, 600000, true
     14
              private static AccountService accountService;
     15
     16⊖
              public static void main(String[] args) {
                   in = new Scanner(System.in);
     17
                   accountService = new AccountServiceHashMapImpl();
     18
                   System.out.print("Welcome to Banking Application!");
     19
                   while (true) {
     20
                         System out nointln("\n").

    ■ BankingApp.java ×
                                                                                                                       account-input.txt
                                                                                                                                            account-output.txt ×
                                                                                                           1,Stella,Savings,100000.0,true
   package com.indium.bankingapp;
                                                                                                           22,Steffy,Savings,200000.0,true
   3⊕ import java.util.Collection:
                                                                                                           3 3, Hadi, Savings, 300000.0, true
  11
                                                                                                          44, Juli, Current, 400000.0, true
                                                                                                          55, Eliza, Current, 500000.0, true
  12 public class BankingApp {
           private static Scanner in;
                                                                                                          6 6,Sam,Current,600000.0,true
  13
           private static AccountService accountService;
  14
  15
           public static void main(String[] args) {
 16⊖
               in = new Scanner(System.in);
  17
                accountService = new AccountServiceHashMapImpl();
 18
                System.out.print("Welcome to Banking Application!");
 19
```

### 5. Print Statistics & Exit

```
    ■ BankingApp.java ×
      package com.indium.bankingapp;
                                                                                                     BankingApp (6) [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspo
                                                                                                      1. Add Accounts
   3⊕ import java.util.Collection;
                                                                                                        View All Accounts
                                                                                                      3. View Account
  12 public class BankingApp {
                                                                                                      4. Update Account
           private static Scanner in;
                                                                                                      5. Delete Account
           private static AccountService accountService;
                                                                                                      6. Print Statistics
                                                                                                      7. Import
        public static void main(String[] args) {
  16⊖
                                                                                                      8. Export
                in = new Scanner(System.in);
                accountService = new AccountServiceHashMapImpl();
System.out.print("Welcome to Banking Application!");
                                                                                                      Enter the option: 6
                                                                                                      a] No of accounts which has balance more than 1 lac
                while (true) {
    System.out.println("\n");
                                                                                                     b] Show no of account by account type
c] Show no of accounts by account type with sorting
  21
                    System.out.println("1. Add Accounts");
System.out.println("2. View All Accounts");
  22
                                                                                                      d] Show avg balance by account type
e] List account ids whose account name contains given name
                    System.out.println("3. View Account");
System.out.println("4. Update Account");
                                                                                                      Enter an option: a
  25
                                                                                                      a] No of accounts which has balance more than 1 lac: 5
                     System.out.println("5. Delete Account");
                    System.out.println("6. Print Statistics");
System.out.println("7. Import");
  28
                                                                                                      1. Add Accounts
  29
30
                    System.out.println("8. Export");
System.out.println("9. Exit");
                                                                                                      2. View All Accounts
                                                                                                      3. View Account
                    System.out.print("Enter the option: ");
                                                                                                      4. Update Account
  32
                                                                                                      5. Delete Account
                    // Get option from user
                                                                                                      6. Print Statistics
  34
                    int option = 0;
                                                                                                      7. Import
                    try {
                                                                                                      8. Export
                         option = Integer.parseInt(in.next());
  36
                                                                                                      9. Exit
  37
                    } catch (NumberFormatException e) {
                                                                                                      Enter the option: 6
                         System.out.println("Invalid option. Please enter valid optio
  38
                                                                                                      a] No of accounts which has balance more than 1 lac
b] Show no of account by account type
  39
                         continue:
                                                                                                     c] Show no of accounts by account type with sorting d] Show avg balance by account type
  41
                    try {
                         switch (option) {
                                                                                                      e] List account ids whose account name contains given name
  43
                                                                                                      Enter an option: b
                                                                                                      b] Show no of account by account type: {Savings=3, Current=3}
                              addAccount():
  45
                              System.out.println("Account has been added successfully!
```

```
🖳 Console 🗶 📗 account-input.txt 💮 account-output.txt 💮 🗎 🎉 🎉 🖟 🖟 🗗 🗗 💆 💌 🔁 🔻
BankingApp.java ×
    package com.indium.bankingapp;
                                                                                                      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⊕ import java.util.Collection;
                                                                                                      3. View Account
  12 public class BankingApp {
                                                                                                      4. Update Account
          private static Scanner in:
                                                                                                      5. Delete Account
           private static AccountService accountService;
  14
                                                                                                      6. Print Statistics
                                                                                                      7. Import
  16⊖
           public static void main(String[] args) {
                                                                                                      8. Export
                in = new Scanner(System.in);
                                                                                                      9. Exit
                accountService = new AccountServiceHashMapImpl();
                                                                                                      Enter the option: 6
  18
                System.out.print("Welcome to Banking Application!");
  19
                                                                                                      al No of accounts which has balance more than 1 lac
                while (true) {
                                                                                                      b] Show no of account by account type
                    System.out.println("\n");
  21
22
                                                                                                      c] Show no of accounts by account type with sorting
                    System.out.println("1. Add Accounts");
System.out.println("2. View All Accounts");
System.out.println("3. View Account");
                                                                                                      d] Show avg balance by account type
  23
24
                                                                                                      e] List account ids whose account name contains given name
                                                                                                      Enter an option: o
                    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");
  25
                                                                                                      c] Show no of accounts by account type with sorting: {Current=3, Savings=3}
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31
                                                                                                      1. Add Accounts
                                                                                                      2. View All Accounts
                    System.out.println("9. Exit");
System.out.print("Enter the option: ");
                                                                                                      3. View Account
                                                                                                      4. Update Account
                                                                                                      5. Delete Account
                    // Get option from user
  33
34
                                                                                                      6. Print Statistics
                    int option = 0;
                                                                                                      7. Import
  35
                    try {
                         option = Integer.parseInt(in.next());
  36
37
                                                                                                      9. Exit
                    } catch (NumberFormatException e) {
                                                                                                      Enter the option: 6
                         System.out.println("Invalid option, Please enter valid option
  38
                                                                                                      a] No of accounts which has balance more than 1 lac
                         continue;
                                                                                                      b] Show no of account by account type
  40
41
                                                                                                      c] Show no of accounts by account type with sorting
                    try {
                                                                                                      d] Show avg balance by account type
e] List account ids whose account name contains given name
  42
                         switch (option) {
  43
                                                                                                      Enter an option: d
                         case 1:
                                                                                                      d] Show avg balance by account type: {Savings=200000.0, Current=500000.0}
  45
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                              addAccount():
                              System.out.println("Account has been added successfully!
```

```
package com.indium.bankingapp;
              3⊕ import java.util.Collection;
       public class BankingApp {
private static Scanner in;
private static AccountService accountService;
                                                                                                                                                                                                                                                                                                                                                          1. Add Accounts
2. View All Accounts
                                                                                                                                                                                                                                                                                                                                                          3. View Account
4. Update Account
                                      public static void main(String[] args) {
   in = new Scanner(System.in);
   accountService = new AccountServiceHashMapImpl();
   System.out.print("Welcome to Banking Application!");
   it is a factor of the state of the s
                                                                                                                                                                                                                                                                                                                                                            5. Delete Account
                                                                                                                                                                                                                                                                                                                                                          6. Print Statistics
7. Import
8. Export
9. Exit
          18
                                                      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("8. Export");
    System.out.println("9. Exit");
    System.out.println("9. Exit");
        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
                                                                       // Get option from user
int option = 0;
                                                                     try {
  option = Integer.parseInt(in.next());
} catch (NumberFormatException e) {
  System.out.println("Invalid option. Please enter valid option.")
                                                                                                                                                                                                                                                                                                                                                           4. Update Account
5. Delete Account
                                                                                                                                                                                                                                                                                                                                                            6. Print Statistics
                                                                                                                                                                                                                                                                                                                                                           7. Import
8. Export
9. Exit
                                                                                        continue:
                                                                       try {
                                                                                                                                                                                                                                                                                                                                                           Enter the option: 9
Thank you!!!
                                                                                        switch (option) {
                                                                                                       addAccount();
                                                                                                       System.out.println("Account has been added successfully!
break;
                                                                                                                                                                                                                                                                                                                                                           1. Add Accounts
2. View All Accounts
                                                                                                                                                                                                                                                                                                                                                            3. View Account
                                                                                       case 2:
                                                                                                                                                                                                                                                                                                                                                           4. Update Account
5. Delete Account
6. Print Statistics
                                                                                                       viewALLAccounts():
                                                                                        break;
case 3:
                                                                                                       e 3:
System.out.print("Enter the Account Id: ");
int id = in.nextInt();
Account acc = null;
                                                                                                                                                                                                                                                                                                                                                           7. Import
8. Export
                                                                                                                                                                                                                                                                                                                                                            9. Exit
                                                                                                                                                                                                                                                                                                                                                           Enter the option:
                                                                                                        trv {
```