

Banking System in Java

Project Code and Output

Main.java

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String args[])
5     {
6         Scanner sc = new Scanner(System.in);
7         ArrayList<Bank> al = new ArrayList<Bank>();
8         int choice;
9         boolean check;
10        String ac_no;
11        do
12        {
13            System.out.println("\n----Welcome to our banking system----");
14            System.out.println(" 1. Open Account ");
15            System.out.println(" 2. Deposit Money ");
16            System.out.println(" 3. Withdraw Money ");
17            System.out.println(" 4. Check Balance ");
18            System.out.println(" 5. Display all account details ");
19            System.out.println(" 6. Exit ");
20            System.out.println("Enter your choice: ");
21            choice = sc.nextInt();
22            switch (choice)
23            {
24                case 1:
25                    Bank bk = new Bank();
26                    boolean flag = bk.openAccount();
27                    if(flag)
28                    {
29                        al.add(bk);
30                        System.out.println("Account has been opened successfully.");
31                    }
32                    else
33                    {
34                        System.out.println("Account can not be opened.");
35                        System.out.println("Account can only be opened with the minimum deposit of 1000.");
36                    }
37                    break;
38                case 2:
```

```
38         case 2:
39             System.out.print("Enter Account No : ");
40             ac_no = sc.next();
41             check = false;
42             Iterator i = al.iterator();
43             while(i.hasNext())
44             {
45                 Bank b = (Bank)i.next();
46                 check = b.accno.equals(ac_no);
47                 if(check)
48                 {
49                     b.deposit();
50                     break;
51                 }
52             }
53             if(!check)
54             {
55                 System.out.println("This Account does not exist.");
56             }
57             break;
58         case 3:
59             System.out.print("Enter Account No : ");
60             ac_no = sc.next();
61             check = false;
62             Iterator it = al.iterator();
63             while(it.hasNext())
64             {
65                 Bank b = (Bank)it.next();
66                 check = b.accno.equals(ac_no);
67                 if(check)
68                 {
69                     b.withdrawal();
70                     break;
71                 }
72             }
```

```

73         if(!check)
74         {
75             System.out.println("This Account does not exist.");
76         }
77         break;
78     case 4:
79         System.out.print("Enter Account No : ");
80         ac_no = sc.next();
81         check = false;
82         Iterator ite = al.iterator();
83         while(ite.hasNext())
84         {
85             Bank b = (Bank)ite.next();
86             check = b.accno.equals(ac_no);
87             if(check)
88             {
89                 b.showAccount();
90                 break;
91             }
92         }
93         if(!check)
94         {
95             System.out.println("This Account does not exist.");
96         }
97         break;
98     case 5:
99         boolean temp = true;
100         Iterator itr = al.iterator();
101         while(itr.hasNext()) {
102             temp = false;
103             Bank b = (Bank)itr.next();
104             b.showAccount();
105         }
106         if(temp)
107         {
108             System.out.println("No Account exist.");
109         }
110         break:
111
112     case 6:
113         System.out.println("Thank you for using our banking system.");
114         break;
115     }
116     while (choice != 6);
117 }
118 }

```

Bank.java

```
1 import java.util.*;
2 public class Bank
3 {
4     String accno;
5     String name;
6     String address;
7     float balance;
8     Scanner sc = new Scanner(System.in);
9     boolean openAccount()
10    {
11        System.out.print("Enter Account No: ");
12        accno = sc.next();
13        System.out.print("Enter Name: ");
14        name = sc.next();
15        System.out.print("Enter Address: ");
16        address = sc.next();
17        System.out.print("Enter Balance: ");
18        balance = sc.nextFloat();
19        if(balance < 1000)
20            return false;
21        return true;
22    }
23    void deposit()
24    {
25        float amt;
26        System.out.println("Enter the amount you want to deposit: ");
27        amt = sc.nextLong();
28        balance = balance + amt;
29        System.out.println(amt + " has been deposited successfully in your account.");
30        System.out.println("Updated balance in your account: " + balance);
31    }
32    void withdrawal()
33    {
34        float amt;
35        System.out.println("Enter the amount you want to withdraw: ");
36        amt = sc.nextLong();
37        if (balance - amt > 1000)
38        {
39            balance = balance - amt;
40            System.out.println(amt + " has been withdrawn successfully from your account.");
41            System.out.println("Balance after withdrawal: " + balance);
42        } else
43        {
44            System.out.println("Your need to maintain a minimum balance of 1000. ");
45            System.out.println("Transaction failed...!!");
46        }
47    }
48    void showAccount()
49    {
50        System.out.println("Name of account holder: " + name);
51        System.out.println("Account No: " + accno);
52        System.out.println("Address: " + address);
53        System.out.println("Balance: " + balance);
54    }
55 }
```

Output

```
-----Welcome to our banking system-----
```

1. Open Account
2. Deposit Money
3. Withdraw Money
4. Check Balance
5. Display all account details
6. Exit

```
Enter your choice:
```

```
1
```

```
Enter Account No: 0911245
```

```
Enter Name: Ashish
```

```
Enter Address: Indore
```

```
Enter Balance: 5000
```

```
Account has been opened successfully.
```

```
-----Welcome to our banking system-----
```

1. Open Account
2. Deposit Money
3. Withdraw Money
4. Check Balance
5. Display all account details
6. Exit

```
Enter your choice:
```

```
1
```

```
Enter Account No: 0911489
```

```
Enter Name: Rahul
```

```
Enter Address: Indore
```

```
Enter Balance: 100
```

```
Account can not be opened.
```

```
Account can only be opened with the minimum deposit of 1000.
```

-----Welcome to our banking system-----

1. Open Account
2. Deposit Money
3. Withdraw Money
4. Check Balance
5. Display all account details
6. Exit

Enter your choice:

2

Enter Account No : 0911245

Enter the amount you want to deposit:

2500

2500.0 has been deposited successfully in your account.

Updated balance in your account: 7500.0

-----Welcome to our banking system-----

1. Open Account
2. Deposit Money
3. Withdraw Money
4. Check Balance
5. Display all account details
6. Exit

Enter your choice:

3

Enter Account No : 0911245

Enter the amount you want to withdraw:

500

500.0 has been withdrawn successfully from your account.

Balance after withdrawal: 7000.0

-----Welcome to our banking system-----

1. Open Account
2. Deposit Money
3. Withdraw Money
4. Check Balance
5. Display all account details
6. Exit

Enter your choice:

3

Enter Account No : 0911245

Enter the amount you want to withdraw:

7500

Your need to maintain a minimum balance of 1000.

Transaction failed...!!

-----Welcome to our banking system-----

1. Open Account
2. Deposit Money
3. Withdraw Money
4. Check Balance
5. Display all account details
6. Exit

Enter your choice:

4

Enter Account No : 0911245

Name of account holder: Ashish

Account No: 0911245

Address: Indore

Balance: 7000.0

Enter your choice:

1

Enter Account No: 0911246

Enter Name: Robin

Enter Address: Indore

Enter Balance: 2000

Account has been opened successfully.

-----Welcome to our banking system-----

1. Open Account
2. Deposit Money
3. Withdraw Money
4. Check Balance
5. Display all account details
6. Exit

Enter your choice:

5

Name of account holder: Ashish

Account No: 0911245

Address: Indore

Balance: 7000.0

Name of account holder: Robin

Account No: 0911246

Address: Indore

Balance: 2000.0

-----Welcome to our banking system-----

1. Open Account
2. Deposit Money
3. Withdraw Money
4. Check Balance
5. Display all account details
6. Exit

Enter your choice:

6

Thank you for using our banking system.