

save source code as BankingApp.java

Source Code:

```
import java.util.Scanner;
class BankAccount {
    private String accno;
    private String name;
    private String acc_type;
    private long balance;
    private int num;
    private String address;
    private int total_trans=0;
    Scanner sc = new Scanner(System.in);
    //method to open new account
    public void AccountNum(int i){
        String s;
        num = 1000 + i ;
        s = Integer.toString(num);
        accno = "BA" + num;
        System.out.print("Account created, Account no. " + accno);
        System.out.println();

    }

    public void chng_adrs(){

        String new_adrs;
        System.out.print("Enter New Address: ");
        new_adrs = sc.next();
        address = new_adrs;
        System.out.println("Address changed , new address: "+ address);

    }

    public void openAccount() {
        System.out.print("Enter Account type: ");
        acc_type = sc.next();
        System.out.print("Enter Name: ");
        name = sc.next();
        System.out.print("Enter Balance: ");
        balance = sc.nextLong();
        System.out.print("Enter Address: ");
        address = sc.next();

    }

    public void total_trans() {
        System.out.println("Total Transaction: " + total_trans);

    }
}
```

```

//method to display account details
public void showAccount() {
    System.out.println("Name of account holder: " + name);
    System.out.println("Account no.: " + accno);
    System.out.println("Account type: " + acc_type);
    System.out.println("Balance: " + balance);
    System.out.println("Address: " + address);
    System.out.println();
}
//method to deposit money
public void deposit() {
    long amt;
    System.out.println("Enter the amount you want to deposit: ");
    amt = sc.nextLong();
    balance = balance + amt;
    total_trans += 1;
}
//method to withdraw money
public void withdrawal() {
    long amt;
    System.out.println("Enter the amount you want to withdraw: ");
    amt = sc.nextLong();
    if (balance >= amt) {
        balance = balance - amt;
        System.out.println("Balance after withdrawal: " + balance);
        total_trans += 1;
    } else {
        System.out.println("Your balance is less than " + amt + "\tTransaction failed...!!" );
    }
}
//method to search an account number
public boolean search(String ac_no) {
    if (accno.equals(ac_no)) {
        showAccount();
        return (true);
    }
    return (false);
}
}
public class BankingApp {
    public static void main(String arg[]) {
        Scanner sc = new Scanner(System.in);
        //create initial accounts
        System.out.print("How many number of customers do you want to input? ");
        int n = sc.nextInt();
        BankAccount C[] = new BankAccount[n];
        for (int i = 0; i < C.length; i++) {
            C[i] = new BankAccount();
            C[i].openAccount();
            C[i].AccountNum(i);
        }
        // loop runs until number 5 is not pressed to exit
        int ch;
        do {
            System.out.println("\n ***Banking System Application***");

```

System.out.println("1. Display all account details \n 2. Search by Account number\n 3. Deposit the amount \n 4. Withdraw the amount \n 5.To change Address \n 6. Check Total Transaction \n 7.Exit ");

System.out.println("Enter your choice: ");

ch = sc.nextInt();

switch (ch) {

case 1:

for (int i = 0; i < C.length; i++) {

C[i].showAccount();

}

break;

case 2:

System.out.print("Enter account no. you want to search: ");

String ac_no = sc.next();

boolean found = false;

for (int i = 0; i < C.length; i++) {

found = C[i].search(ac_no);

if (found) {

break;

}

}

if (!found) {

System.out.println("Search failed! Account doesn't exist..!!");

}

break;

case 3:

System.out.print("Enter Account no. : ");

ac_no = sc.next();

found = false;

for (int i = 0; i < C.length; i++) {

found = C[i].search(ac_no);

if (found) {

C[i].deposit();

break;

}

}

if (!found) {

System.out.println("Search failed! Account doesn't exist..!!");

}

break;

case 4:

System.out.print("Enter Account No : ");

ac_no = sc.next();

found = false;

for (int i = 0; i < C.length; i++) {

found = C[i].search(ac_no);

if (found) {

C[i].withdrawal();

break;

}

}

if (!found) {

System.out.println("Search failed! Account doesn't exist..!!");

}

break;

case 5:

```
System.out.print("Enter Account No : ");
ac_no = sc.next();
found = false;
for (int i = 0; i < C.length; i++) {
    found = C[i].search(ac_no);
    if (found) {
        C[i].chnge_adrs();
        break;
    }
}
if (!found) {
    System.out.println("Search failed! Account doesn't exist..!!");
}
break;
```

case 6:

```
System.out.print("Enter Account No : ");
ac_no = sc.next();
found = false;
for (int i = 0; i < C.length; i++) {
    found = C[i].search(ac_no);
    if (found) {
        C[i].total_trans();
        break;
    }
}
if (!found) {
    System.out.println("Search failed! Account doesn't exist..!!");
}
break;
```

case 7:

```
System.out.println("See you soon...");
break;
}
}
while (ch != 7);
}
}
```

Output:

```
C:\Users\mca lab works\Desktop\New folder>javac BankingApp.java
C:\Users\mca lab works\Desktop\New folder>java BankingApp
```

How many number of customers do you want to input? 2

Enter Account type: savings

Enter Name: Ronny

Enter Balance: 4567
Enter Address: Asansol
Account created, Account no. BA1000
Enter Account type: Current
Enter Name: Rohan
Enter Balance: 5667
Enter Address: Durgapur
Account created, Account no. BA1001

Banking System Application

1. Display all account details
2. Search by Account number
3. Deposit the amount
4. Withdraw the amount
- 5.To change Address
6. Check Total Transaction
- 7.Exit

Enter your choice:

1

Name of account holder: Ronny
Account no.: BA1000
Account type: savings
Balance: 4567
Address: Asansol

Name of account holder: Rohan
Account no.: BA1001
Account type: Current
Balance: 5667
Address: Durgapur

Banking System Application

1. Display all account details
2. Search by Account number
3. Deposit the amount
4. Withdraw the amount
- 5.To change Address
6. Check Total Transaction
- 7.Exit

Enter your choice:

2

Enter account no. you want to search: BA1000
Name of account holder: Ronny
Account no.: BA1000
Account type: savings
Balance: 4567
Address: Asansol

Banking System Application

1. Display all account details
2. Search by Account number
3. Deposit the amount
4. Withdraw the amount

- 5.To change Address
- 6. Check Total Transaction
- 7.Exit

Enter your choice:

3

Enter Account no. : BA1000

Name of account holder: Ronny

Account no.: BA1000

Account type: savings

Balance: 4567

Address: Asansol

Enter the amount you want to deposit:

567

Banking System Application

- 1. Display all account details
- 2. Search by Account number
- 3. Deposit the amount
- 4. Withdraw the amount
- 5.To change Address
- 6. Check Total Transaction
- 7.Exit

Enter your choice:

4

Enter Account No : BA1001

Name of account holder: Rohan

Account no.: BA1001

Account type: Current

Balance: 5667

Address: Durgapur

Enter the amount you want to withdraw:

4000

Balance after withdrawal: 1667

Banking System Application

- 1. Display all account details
- 2. Search by Account number
- 3. Deposit the amount
- 4. Withdraw the amount
- 5.To change Address
- 6. Check Total Transaction
- 7.Exit

Enter your choice:

5

Enter Account No : BA1000

Name of account holder: Ronny

Account no.: BA1000

Account type: savings

Balance: 5134

Address: Asansol

Enter New Address: Damodar

Address changed , new address: Damodar

Banking System Application

1. Display all account details
2. Search by Account number
3. Deposit the amount
4. Withdraw the amount
- 5.To change Address
6. Check Total Transaction
- 7.Exit

Enter your choice:

6

Enter Account No : BA1000

Name of account holder: Ronny

Account no.: BA1000

Account type: savings

Balance: 5134

Address: Damodar

Total Transaction: 1