

```
1 import java.util.Scanner;
2
3 class BankAccount {
4     private double balance;
5
6     public BankAccount(double initialBalance) {
7         balance = initialBalance;
8     }
9
10    public double showBalance(){
11        return balance;
12    }
13
14    public void deposit(double amount){
15        balance += amount;
16        System.out.println("The deposited amount is
rupees" + amount);
17    }
18
19    public void withdraw(double amount){
20        balance -= amount;
21    }
22 }
23
24 class ATM {
25     private BankAccount account;
26
27     public ATM(BankAccount account) {
28         this.account = account;
29     }
30
31     public void Menu() {
32         System.out.println("Main Menu Options:");
33         System.out.println("1.Check balance");
34         System.out.println("2.Withdraw cash");
35         System.out.println("3.deposit cash");
36         System.out.println("4.back");
37     }
38
39     public void initialise() {
40         Scanner scanner = new Scanner(System.in);
```

```
41         int choice;
42
43         do {
44             Menu();
45             System.out.println("Enter your choice:");
46             choice = scanner.nextInt();
47
48             switch (choice) {
49                 case 1:
50                     System.out.println("Your balance
51 is: rupees" + account.showBalance());
52                     break;
53                 case 2:
54                     System.out.println("Enter the
55 amount to be withdrawn:");
56                     double withdrawAmount = scanner.
57 nextDouble();
58                     account.withdraw(withdrawAmount);
59                     break;
60                 case 3:
61                     System.out.println("Enter the
62 amount to be deposited:");
63                     double depositAmount = scanner.
64 nextDouble();
65                     account.deposit(depositAmount);
66                     break;
67                 case 4:
68                     System.out.println("Thankyou for
69 using the ATM");
70                     break;
71                 default:
72                     System.out.println("invalid
73 choice");
74             }
75         } while (choice != 4);
76     }
77 }
78
79 public class Main{
80     public static void main(String[]args){
81         BankAccount account = new BankAccount(
82 1000);
```

```
74         ATM atm = new ATM(account);
75         atm.initialise();
76     }
77 }
78
79
```