```java
import java.util.Scanner;
abstract class Account
{
    String cust_name;
    long acc_no;
    String acc_type;
    double balance;
    double min_bal = 1000.0;
Account (String cust_name, long no,String acc_type,double balance)
{
    this.cust_name=cust_name;
    this.acc_no=acc_no;
    this.acc_type=acc_type;
    this.balance=balance;
}
abstract void deposit(double amount);
abstract void display();
abstract void withdrawal(double amount);
}

class Curr_acct extends Account
{
    double penalty=100.0;
    Curr_acct(String cust_name, long acc_no,String acc_type,double balance)
    {
        super(cust_name,acc_no,acc_type,balance);
        System.out.println("Name of the customer: "+cust_name);
        System.out.println("Account Number : "+acc_no);
        System.out.println("Account type: "+acc_type);
        System.out.println("Balance: "+balance);
    }

    void deposit(double amount)
    {
        this.balance  = this.balance+amount;
    }

    void display()
    {
        System.out.println("Balance is: " + this.balance);
    }
    void withdrawal(double amount)
    {
        this.balance  = this.balance-amount;
        imposepenalty();
```

```
    {
        this.balance  = this.balance-amount;
        imposepenalty();
    }
    void imposepenalty()
    {
        if(this.balance<min_bal)
        {
            this.balance=this.balance-penalty;
        }
    }
}
class Sav_acct extends Account
{
    Sav_acct(String cust_name, long acc_no,String acc_type,double balance)
    {
        super(cust_name,acc_no,acc_type,balance);
        System.out.println("Name of the customer: "+cust_name);
        System.out.println("Account Number : "+acc_no);
        System.out.println("Account type: "+acc_type);
        System.out.println("Balance: "+balance);
    }
    void deposit(double amount)
    {
        this.balance = this.balance+amount;
        interest();
    }
    void interest()
    {
       int rate=10,time=1;
       float ci=(float)(this.balance*Math.pow(1+rate/100.0,time)-this.balance);
       this.balance=this.balance+ci;
    }
    void display()
    {
        System.out.println("Balance is: " +this.balance);
    }
    void withdrawal(double amount)
    {
        this.balance=this.balance-amount;
    }
}
class bank
{
    public static void main(String[] args)
    {
```

```
class bank
{
    public static void main(String[] args)
    {
        Scanner ss = new Scanner(System.in);
        Double amount;
        int flag = 0;
        while( flag == 0)
        {
            System.out.println("Enter the type of Account:\n1:Current account\n2:Savings account");
            int choice=ss.nextInt();
            switch(choice)
            {
                case 1:System.out.println("\nCurrent account:\n");
                Curr_acct c = new Curr_acct("Rahul", 15768912,"current", 30000.00);
                int flag1 = 0;
                while( flag1 == 0)
                {
                    System.out.println("Enter your choice\n1:Deposit amount\n2:DisplayBalance\n3:Withdraw");
                    int choice1= ss.nextInt();
                    switch (choice1)
                    {
                        case 1:
                        System.out.println("Enter amount to be deposited:");
                        amount = ss.nextDouble();
                        c.deposit(amount);
                        break;

                        case 2:
                        c.display();
                        break;

                        case 3:
                        System.out.println("Enter amount you want to withdraw:");
                        amount = ss.nextDouble();
                        c.withdrawal(amount);
                        break;

                        default:
                        flag1 = 1;
                    }
                }
                break;
                case 2:System.out.println("\nSavings account:\n");
                Sav_acct s = new Sav_acct("Vijay", 68432179,"Savings",6000.00);
                int flag2 = 0;
```

```
                    break;

                    case 3:
                    System.out.println("Enter amount you want to withdraw:");
                    amount = ss.nextDouble();
                    c.withdrawal(amount);
                    break;

                    default:
                    flag1 = 1;
                }
            }
            break;
            case 2:System.out.println("\nSavings account:\n");
            Sav_acct s = new Sav_acct("Vijay", 68432179,"Savings",6000.00);
            int flag2 = 0;
            while(flag2 == 0)
            {
                System.out.println("Enter your choice\n1:Deposit amount\n2:DisplayBalance\n3:Withdraw");
                int choice2 = ss.nextInt();
                switch (choice2)
                {
                   case 1:System.out.println("Enter the Amount to be Deposited:");
                   amount = ss.nextDouble();
                   s.deposit(amount);
                   break;
                   case 2:
                   s.display();
                   break;
                   case 3:
                   System.out.println("Enter the Amount you want to Withdraw:");
                   amount = ss.nextDouble();
                   s.withdrawal(amount);
                   break;
                   default:
                   flag2 =1;
                }
            }
            break;
            default:flag=1;
        }
    }
}
```

Command Prompt - java bank

```
1:Current account
2:Savings account
1

Current account:

Name of the customer: Rahul
Account Number : 15768912
Account type: current
Balance: 30000.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
1
Enter amount to be deposited:
100
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
3
Enter amount you want to withdraw:
10000
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
2
Balance is: 20100.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
1
Enter amount to be deposited:
200
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
2
Balance is: 20300.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
4
Enter the type of Account:
1:Current account
2:Savings account
```

Command Prompt - java bank

```
2:DisplayBalance
3:Withdraw
4
Enter the type of Account:
1:Current account
2:Savings account
2

Savings account:

Name of the customer: Vijay
Account Number : 68432179
Account type: Savings
Balance: 6000.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
1
Enter the Amount to be Deposited:
200
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
2
Balance is: 6820.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
3
Enter the Amount you want to Withdraw:
6000
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
2
Balance is: 820.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
4
Enter the type of Account:
1:Current account
2:Savings account
```