```java
import java.util.Scanner;
import java.lang.Math;

class Account
{ String name,type,accno;
   double balance;

   void deposit()
   { Scanner get=new Scanner(System.in);
      double depo;
      System.out.println("Enter the deposit : ");
      depo=get.nextDouble();
      balance=balance+depo;
   }
   void withdraw()
   { Scanner get=new Scanner(System.in);
      double withdraw;
      System.out.println("Enter the amount to withdraw: (<"+balance+")");
      withdraw=get.nextDouble();
      balance=balance-withdraw;
      System.out.println("Balance : "+balance);
   }
}

class  Curr_acct extends Account
{ int intr=6;
   boolean cheque=true;
   void dispblnc()
   { System.out.println("Balance : "+balance);
   }
   void create()
   { Scanner get=new Scanner(System.in);
```

```java
   void create()
   { Scanner get=new Scanner(System.in);
      System.out.println("Name :");
      name=get.next();
      accno="current";
      System.out.println("Account No :");
      accno=get.next();
      System.out.println("Balance :");
      balance=get.nextDouble();
   }

   void check()
   { System.out.println("\nMinimum Balance : "+5000);
      if(balance<5000)
      { System.out.println("Penalty is imposed please deposit minimum " + (5000-balance+200)+"Rs\nRs 200 Service charge");
         deposit();
         balance=balance-200;
      }
      else
      { System.out.println("Balance : "+balance +"Safe");}
   }
}

class  Sav_acct extends Account
{ double intr=7;
   boolean cheque=false;
   void dispblnc()
   { System.out.println("Balance : "+balance);
   }
   void create()
   { Scanner get=new Scanner(System.in);
```

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Bank.java ShapeMain.java

```java
    void create()
    { Scanner get=new Scanner(System.in);
      System.out.println("Name :");
      name=get.next();
      accno="savings";
      System.out.println("Account No :");
      accno=get.next();
      System.out.println("Balance :");
      balance=get.nextDouble();
    }

    void calcint()
    { double interest;
      Scanner get=new Scanner(System.in);
      System.out.println("Enter time: ");
      int time;
      time=get.nextInt();
      interest=balance*Math.pow((1+intr/100),time)-balance;
      System.out.println("Interest : "+interest);
      balance=balance+interest;
      System.out.println("Balance : "+balance);
    }

}

class Bank
{ public static void main(String args[])
  { Scanner get=new Scanner(System.in);
    String type;
    Sav_acct accs=new Sav_acct();
    Curr_acct accr=new Curr_acct();
    System.out.println("Enter type of account: (current/savings)");
```

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Bank.java ShapeMain.java

```java
    Curr_acct accr=new Curr_acct();
    System.out.println("Enter type of account: (current/savings)");
    type=get.next();
    if(type.equals("savings"))
     accs.create();
    else if(type.equals("current"))
     accr.create();

    int ch;
    do
    { System.out.println("\n1.Deposit\n2.Display Balance\n3.Deposit Interest\n4.Withdrawl\n5.Check\n6.Cheque Boook(under developer
      ch=get.nextInt();
      switch(ch)
      { case 1 : if(type.equals("savings"))
                  accs.deposit();
                 else
                  accr.deposit();
                 break;
        case 2 : if(type.equals("savings"))
                  accs.dispblnc();
                 else
                  accr.dispblnc();

                 break;
        case 3 : if(type.equals("savings"))
                  accs.calcint();
                 else
                  System.out.println("This account does not have this provision");
                 break;
        case 4 : if(type.equals("savings"))
                  accs.withdraw();
                 else
```

```java
                accs.dispblnc();
            else
                accr.dispblnc();

                break;
        case 3 : if(type.equals("savings"))
                accs.calcint();
            else
                System.out.println("This account does not have this provision");
                break;
        case 4 : if(type.equals("savings"))
                accs.withdraw();
            else
                accr.withdraw();
                break;
        case 5 : if(type.equals("savings"))
                System.out.println("This account does not have this provision");
            else
                accr.check();
                break;
        case 6 : if(type.equals("savings"))
                System.out.println("This account does not have this provision");
            else
                System.out.println("This account does have this provision");
                break;
        default : if(ch!=7)
                System.out.println("Enter valid option");
            }
        }while(ch!=7);
    }
}
```

```
D:\Java\jdk1.8.0_261\bin\prog>javac Bank.java

D:\Java\jdk1.8.0_261\bin\prog>java Bank
Enter type of account: (current/savings)
savings
Name :
rohit
Account No :
18765
Balance :
10000

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
1
Enter the deposit :
2000

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
2
Balance : 12000.0

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
3
Enter time:
3
Interest : 2700.5160000000014
Balance : 14700.516000000001

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
```

```
3
Interest : 2700.5160000000014
Balance : 14700.516000000001

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
4
Enter the amount to withdraw: (<14700.516000000001)
2000
Balance : 12700.516000000001

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
5
This account does not have this provision

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
6
This account does not have this provision

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
7

D:\Java\jdk1.8.0_261\bin\prog>java Bank
Enter type of account: (current/savings)
current
Name :
rohit
```

```
D:\Java\jdk1.8.0_261\bin\prog>java Bank
Enter type of account: (current/savings)
current
Name :
rohit
Account No :
187653
Balance :
10000

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
1
Enter the deposit :
3000

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
2
Balance : 13000.0

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
3
This account does not have this provision

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
4
```

```
1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
4
Enter the amount to withdraw: (<13000.0)
100
Balance : 12900.0

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
5

Minimum Balance : 5000
Balance : 12900.0Safe

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
6
This account does have this provision

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
4
Enter the amount to withdraw: (<12900.0)
10000
Balance : 2900.0

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
```

```
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
4
Enter the amount to withdraw: (<12900.0)
10000
Balance : 2900.0

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
5

Minimum Balance : 5000
Penalty is imposed please deposit minimum 2300.0Rs
Rs 200 Service charge
Enter the deposit :
2500

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
2
Balance : 5200.0

1.Deposit
2.Display Balance
3.Deposit Interest
4.Withdrawl
5.Check
6.Cheque Boook(under developemnt)
7.Exit
```