```
import java.util.Scanner;
class Account
 String name,acc_no;
 int type;
 double bal;
}
class Sav_acct extends Account
{
  double ci,dep,wit,time,rate,min;
  void setData(String n, String an, int t,double b)
 {
  name=n;
  acc_no=an;
  type=t;
  bal=b;
 }
 void dep_acc(double d)
 {
  dep=d;
  bal=bal+dep;
 }
 void display()
 {
  System.out.println("The total balance of the customer is: "+bal);
 }
 void interest(float Time,float r)
  time=Time;
```

```
rate=r;
 ci=bal;
 bal=bal*(Math.pow((1+(rate*0.01)),time));
 ci=bal-ci;
 System.out.println("Compound interest: "+ci);
 System.out.println("Balance after depositing interest: "+bal);
}
void withdraw(double w)
{
 Scanner sc=new Scanner(System.in);
 double m;
 wit=w;
 if(wit>bal)
 System.out.println("Your withdrawal amount exceeds your balance amount");
 else
 {
  bal=bal-wit;
  System.out.println("Your balance after withdrawal is: "+bal);
  System.out.println("Enter the minimum balance allowed");
  m=sc.nextDouble();
  this.minimum(m);
 }
}
void minimum(double m)
{
 min=m;
 if(bal<min){
 System.out.println("Your balance is less than the minimum amount");
 System.out.println("Your total balance is: "+bal);}
```

```
}
}
class Curr_acct extends Account
  double dep, wit, min, penalty;
  Boolean cheque;
  void setData(String n, String an, int t,double b)
 {
  name=n;
  acc_no=an;
  type=t;
  bal=b;
 }
 void dep_acc(double d)
  dep=d;
  bal=bal+dep;
 }
void display()
 {
  System.out.println("The total balance of the customer is: "+bal);
 }
 void withdraw(double w)
 {
  Scanner sc=new Scanner(System.in);
  double m;
  float p;
  wit=w;
  if(wit>bal)
```

```
System.out.println("Your withdrawal amount exceeds your balance amount");
  else
  {
   bal=bal-wit;
   System.out.println("Your balance after withdrawal is: "+bal);
   System.out.println("Enter the minimum balance allowed and the service charge percentage");
   m=sc.nextDouble();
   p=sc.nextFloat();
   this.minimum(m,p);
  }
 }
 void minimum(double m,double p)
 {
  penalty=p;
  min=m;
  if(bal<min)
  {
   System.out.println("Your balance is less than the minimum amount");
   bal=bal-((min-bal)*penalty*0.01);
   System.out.println("Your total balance is: "+bal);
  }
 }
class AccountMain
 public static void main(String args[])
  int s_no_cust,c_no_cust,i,che;
  String n,an;
```

```
double d,b,w;
float Time,r;
Scanner sc=new Scanner(System.in);
System.out.println("Enter the number of customers with savings account");
s_no_cust=sc.nextInt();
System.out.println("Enter the number of customers with current account");
c_no_cust=sc.nextInt();
Sav_acct obs[]=new Sav_acct[s_no_cust];
Curr_acct obc[]=new Curr_acct[c_no_cust];
if(s_no_cust>0)
System.out.println("---Savings account---");
for(i=0;i<s_no_cust;i++)</pre>
{
 obs[i]=new Sav_acct();
 System.out.println("Enter "+(i+1)+" customer's name and account number and current balance");
 n=sc.next();
 an=sc.next();
 b=sc.nextDouble();
 obs[i].setData(n,an,1,b);
 System.out.println("Enter the deposit amount");
 d=sc.nextDouble();
 obs[i].dep_acc(d);
 obs[i].display();
 System.out.println("Enter the time period and the rate of interest");
 Time=sc.nextFloat();
 r=sc.nextFloat();
 obs[i].interest(Time,r);
 System.out.println("Enter the withdrawal amount");
 w=sc.nextDouble();
```

```
obs[i].withdraw(w);
  }
  if(c_no_cust>0)
  System.out.println("---Current account---");
  for(i=0;i<c_no_cust;i++)</pre>
  {
   obc[i]=new Curr_acct();
   System.out.println("Enter "+(i+1)+" customer's name and account number and current balance");
    n=sc.next();
   an=sc.next();
    b=sc.nextDouble();
   obc[i].setData(n,an,2,b);
   System.out.println("Enter 1 if the customer has cheque book else press 0");
   che=sc.nextInt();
    if(che==1)
   obc[i].cheque=true;
    else
   obc[i].cheque=false;
   System.out.println("Enter the deposit amount");
   d=sc.nextDouble();
   obc[i].dep_acc(d);
   obc[i].display();
   System.out.println("Enter the withdrawal amount");
   w=sc.nextDouble();
   obc[i].withdraw(w);
  }
 }
}
```

```
C:\Users\Adithi\Desktop\java prgs>java AccountMain
Enter the number of customers with savings account
Enter the number of customers with current account
---Savings account---
Enter 1 customer's name and account number and current balance
Aditi
59394903
1000
Enter the deposit amount
The total balance of the customer is: 1200.0
Enter the time period and the rate of interest
Compound interest: 36.0
Balance after depositing interest: 1236.0
Enter the withdrawal amount
Your balance after withdrawal is: 736.0
Enter the minimum balance allowed
500
---Current account---
Enter 1 customer's name and account number and current balance
Anu
64689900
2000
Enter 1 if the customer has cheque book else press 0
Enter the deposit amount
100
The total balance of the customer is: 2100.0
Enter the withdrawal amount
1500
Your balance after withdrawal is: 600.0
Enter the minimum balance allowed and the service charge percentage
700
Your balance is less than the minimum amount
Your total balance is: 599.0
C:\Users\Adithi\Desktop\java_prgs>
```