```
import java.util.*;
class Account
{
    String name;
    int accno;
    String type;
    double balance;
    Scanner sc = new Scanner (System.in);
    void accept ()
    {
        System.out.println(" Enter name");
        name = sc.next();
        System.out.println(" Enter accno");
        accno = sc.nextInt();
    }
}
class Curr_acct extends Account
{
    double deposit;
    double withdraw;
    double min_balance = 1000;
    int penalty = 100;
    Scanner sc = new Scanner (System.in);
    void accept1()
    {
        System.out.println(" Enter the balance");
        balance = sc.nextDouble();
    }
    void update()
    {
        System.out.println(" Enter the deposit");
        deposit = sc.nextdouble();
        balance += deposit;
```

```
System.out.println("balance got updated to:"+balance);
}
void check()
{
    if(balance < min_bal)
    {
        System.out.println("a penalty of 100 is imposed");
        balance -= penalty;
        System.out.println("Balance got updated to:"+balance);
        check();
    }
}
void withdrawal()
{
    System.out.println("Enter the amt to be withdrawn");
    withdraw = sc.nextDouble();
    balance -= withdraw;
    System.out.println("balance got updated to:"+balance);
    check();
}
void display()
{
    System.out.println("---- DETAILS ----");
    System.out.println("name:"+name);
    System.out.println("accno:"+accno);
    System.out.println("type:"+type);
    if(balance<0)
    {
    System.out.println("balance:0");
    System.out.println("money to be deposited:"+(-balance));
}
else
System.out.println("balance:"+balance);
```

```
        System.out.println(" cheque book facility exist ");
    }
}
class sav_acct extends Account
{
    double balance;
    double deposit;
    double withdraw;
    double interest, time, rate;
    Scanner sc = new Scanner(System.in);

    void accept1()
    {
        System.out.println(" Enter the balance ");
        balance = sc.nextDouble();
    }
    void update();
    {
        System.out.println("Enter the deposit");
        deposit = sc.nextDouble();
        Balance += deposit;
        System.out.println(" balance got updated to
                            : " + balance);
    }
}
void calc_interest()
{
System.out.println(" a rate of 4.5% is given for deposits
                    in savings bank acc");
System.out.println(" enter the time duration for which
                    interest should be calculated");
    time = sc.nextDouble();
    rate = 4.5;
    double x, y;
```

```
1l=   (1 + rate/100;
balance = balance * (Math.pow(x,time));
}
 void withdraw()
{
    system.out.println("Enter the amt to be withdrawn");
    withdraw = sc.nextDouble();
     balance - = withdraw;
     system.out.println("Balance got updated to:"
                          + balance");
}
void display()
{
     system.out.println("------ DETAILS ------");
     system.out.println("name:"+name);
     system.out.println("accno:"+accno);
     system.out.println("type:"+type);
     calcinterest();
      if(balance<0)
      {
      system.out.println("balance:0");
      system.out.println("Money to be deposited:"+(-
                                          balance));
      }
else
system.out.println("balance:"%.3f", balace);
system.out.println();

system.out.println("cheque book does not
      facility exist");
}
```

```
class bank
{
public static void main (String args[])
{
int op, ch;
Scanner sc = new Scanner (System.in);
System.out.println("1. Cur_acct 2. Sav acct");
System.out.println("Enter the type");
op = sc.nextInt();
if (op == 1)
{
Cur_acct a = new Cur_acct();
a.type = "Cur_Acct";
a.accept();
a.acceptT();
do {
System.out.println("1. deposit
                    2. withdrawal
                    3. exit");
System.out.println("enter the choice");
ch = sc.nextInt();
switch(ch)
{
case 1:
a.update();
break;
case 2:
a.withdrawal();
break;
a.display();
break;
```

```
default:
system.out.println("wrong choice");
}
}while(ch!=3)
}
if(ch==2)
{
    Sav_acct b=new sav_acct();
    b.type="sav-acct";
    b.accept();
    b.accept1();
    do{
    system.out.println("1.deposit 2.withdrawal 3-Exit");
     system.out.println("Enter your choice");
     ch=sc.nextInt();
     switch(ch)
     {
      case 1:
       b.chdate();
       break;
       case 2:
        b.withdrawal();
        break;
        case3:
        b.display();
        break;
        default:
          system.out.println("wrong choice");
        }
      }while(ch!=3);
    }
  }
}
```