Main.java

```java
import java.util.Scanner;
class Account
{
    private String name;
    private double account_no;
    private char account_type;
    private double balance;
    void getdata(char ch)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the name of the customer : ");
        name=sc.nextLine();
        System.out.print("Enter the account number of the customer : ");
        account_no=sc.nextDouble();
        System.out.print("Enter the balance of the customer : ");
        balance=sc.nextDouble();
        account_type=ch;
    }
    void updatebalance(double x)
    {
        balance=balance+x;
    }
    void updatebalance1(double x)
    {
        balance=balance-x;
    }
    double getbalance()
    {
        return balance;
    }
    void displaybalance()
    {
        System.out.println("The balance is : "+balance);
```

```
33          System.out.println("The balance is : "+balance);
34      }
35  }
36  class Sav_Account extends Account
37  {
38      private double interest_rate;
39      Sav_Account()
40      {
41          Scanner sc=new Scanner(System.in);
42          getdata('S');
43          System.out.print("Enter the interest rate : ");
44          interest_rate=sc.nextDouble();
45      }
46      void getdeposit()
47      {
48          Scanner sc=new Scanner(System.in);
49          System.out.print("Enter the amount to be deposited : ");
50          double x=sc.nextDouble();
51          updatebalance(x);
52      }
53      void computeinterest()
54      {
55          double x=(getbalance()*interest_rate)/100;
56          updatebalance(x);
57          System.out.println("The computed interest is : "+x);
58          displaybalance();
59      }
60      void withdrawl()
61      {
62          System.out.print("Enter the amount to be withdrawn : ");
63          Scanner sc=new Scanner(System.in);
64          double x=sc.nextDouble();
65          while(x>getbalance())
```

```
65          while(x>getbalance())
66          {
67              System.out.println("The amount withdrawn is more than the balance");
68          }
69          updatebalance1(x);
70          displaybalance();
71      }
72  }
73  class Curr_Account extends Account
74  {
75      private double min_balance;
76      private int cheque_book;
77      Curr_Account()
78      {
79          Scanner sc=new Scanner(System.in);
80          getdata('C');
81          System.out.print("Enter the minimum balance : ");
82          min_balance=sc.nextDouble();
83      }
84      void getdeposit()
85      {
86          Scanner sc=new Scanner(System.in);
87          System.out.print("Enter the amount to be deposited : ");
88          double x=sc.nextDouble();
89          updatebalance(x);
90      }
91      void issuecheque()
92      {
93          Scanner sc=new Scanner(System.in);
94          System.out.print("Enter the amount of the cheque:");
95          double x=sc.nextDouble();
96          if(x>(getbalance()-min_balance))
97          {
```

```
        {
            System.out.println("Cheque of more than the minmum balance issued, penalty of 500 rupees");
            updatebalance1(500);
        }
        else
        {
            updatebalance1(x);
        }
        displaybalance();
    }
    void withdrawl()
    {
        System.out.print("Enter the amount to be withdrawn : ");
        Scanner sc=new Scanner(System.in);
        double x=sc.nextDouble();
        while(x>(getbalance()-min_balance))
        {
            System.out.println("The amount withdrawn is more than the balance");
        }
        updatebalance1(x);
        displaybalance();
    }
}
class Main
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        char ch;
        System.out.print("Enter the type of account C for Current account and S for savings account: ");
        ch=sc.next().charAt(0);
        if(ch=='S'||ch=='s')
        {
```

```
129         {
130             Sav_Account s=new Sav_Account();
131             int x=1;
132             while(x!=0)
133             {
134                 System.out.println("Enter 0 for exit ");
135                 System.out.println("Enter 1 for deposit ");
136                 System.out.println("Enter 2 for balance ");
137                 System.out.println("Enter 3 to interest ");
138                 System.out.println("Enter 4 for withdrawl ");
139                 x=sc.nextInt();
140                 if(x==0)
141                         break;
142                 else if(x==1)
143                 {
144                     s.getdeposit();
145                 }
146                 else if(x==2)
147                 {
148                     s.displaybalance();
149                 }
150                 else if(x==3)
151                 {
152                     s.computeinterest();
153                 }
154                 else if(x==4)
155                 {
156                     s.withdrawl();
157                 }
158             }
159         }
160         else
161         {
```

```
        {
            Curr_Account s=new Curr_Account();
            int x=1;
            while(x!=0)
            {
                System.out.println("Enter 0 for exit");
                System.out.println("Enter 1 for deposit");
                System.out.println("Enter 2 for balance ");
                System.out.println("Enter 3 for cheque");
                System.out.println("Enter 4 for withdrawl");
                x=sc.nextInt();
                if(x==0)
                        break;
                else if(x==1)
                {
                    s.getdeposit();
                }
                else if(x==2)
                {
                    s.displaybalance();
                }
                else if(x==3)
                {
                    s.issuecheque();
                }
                else if(x==4)
                {
                    s.withdrawl();
                }
            }
        }
    }
}
```