```
import java.util.Scanner;
abstract class Account
{
  String name, actype;
  long accNo;
  double bal;
  final double minBal = 1000.0;
  Account (String name, long accNo. double bal,
                String actype)
  {
    this.accNo = accNo;
    this.name = name;
    this.bal = bal;
    this.actype = actype
  }
  abstract void addBal (double amt);
  abstract void displayBal()
```

```
abstract void withdrawBal(double amt);
}
class Curr_acct extends Account
{
  Curr_acct(String name, long accNo, double bal)
  {
    super(name, accNo, bal, "Current");
    System.out.println("Name: "+name+"\n
                        Accno:"+accNo+"\nBalance:
                        "+bal+"\nAccount Type:
                        "+acctype);
  }
  void addBal(double amt)
  {
    this.bal += amt;
  }
  void displayBal()
  {
    System.out.println("The balance is:
                        "+this.bal);
  }
  void checkBal()
  {
    if(this.bal<minBal)
    {
      System.out.println("Insufficient
                          balance, Service charge imposed");
      this.bal -= this.bal*0.02;
    }
  }
  void withdrawBal(double amt)
  {
```

```
this.bal -= amt;
checkBal();
}
}
class Sav_acct extends Account
{
  Sav_acct(String name, long acNo,
           double bal)
  {
    super(cname, acNo, Bal, "Savings");
    System.out.println("Name: "+cname+"\n
                        Acno: "+acNo+"\n
                        Balance: "+bal+"\n Account
                        Type: "+ actype);
  }
  void addBal(double amt)
  {
    this.bal += amt;
    addIntr();
  }
  void addIntr()
  {
    int tm=2, R=7;
    this.bal = this.bal + (Math.pow((1+R/
                        (100)), tm));
  }
  void displayBal()
  {
    System.out.println("The balance is :"
                        + this.bal);
  }
  void withdrawBal(double amt)
  {
```

```
        this.bal -= amt;
    }
}

class AccountMain
{
    public static void main(String[] args){
    Scanner sc = new Scanner(System.in);
     double amt;
    System.out.println("Enter details:");
    System.out.println("Name:");
    String x = sc.next();
    System.out.println("Account Number:");
     long y = sc.nextLong();
     while(true)
     {
       System.out.println("Type of account:
        \n1. Current account \n2. Savings
            account \n 3. Exit");
        int o = sc.nextInt();
        if(o==1){
       System.out.println("The Current
            Account provides cheque book
                facility but no interest:");
       Curr_acct c = new Curr_acct(x,y,
                                   2000d);

     while(true)
     {
       System.out.println("1. Deposite \n
          2. Display Balance \n 3. Withdraw
          Amount \n 4. Exit");
       int ch = sc.nextInt()
       switch(ch)
       {
```

```
case 1:
System.out.println("Enter the amt to be
                    added:");
amt = sc.nextDouble();
cr.addBal(amt);
break;
case 2:
cr.displayBal();
break;
case 3:
System.out.println("Enter the amt to be
                    withdrawn:");
amt = sc.nextDouble();
cr.withdrawnBal(amt);
break;
case 4:
System.exit(0)
default: System.out.println("Invalid
                    choice");
}
}
}

else if(o==2){
System.out.println("The savings Account
  provides compound interest and
  withdrawal facilities but no cheque
  book facility.");
Sav_acct sw = new Sav_acct(n, cy$,
                    5000);
while(true)
{
  System.out.println("1: Deposite\n
  2: Display Balance\n 3: Withdrawn
    Amount\n 4: Exit");
```

```
int ch=sc.nextInt()
switch (ch)
{
 case 1:
 System.out.println("Enter the amount to be
                                    added:");
 amt = sc.nextDouble();
 sv.addBal(amt);
 break;
 case 2:
 sv.displayBal();
 break;
 case 3:
 System.out.println("Enter the amount
 amt=a                    to be withdrawn:");
 amt = sc.nextDouble();
 sv.withdrawBal(amt);
 break;
 case 4: System.exit(0);
 default: System.out.println("Invalid
                                    choice");
 }

 }
 else if(o==0)
 System.exit(0);
 else
 System.out.println("Invalid choice");
 }
}
}
```