```
Circle c = ...
r.printArea(); t.printArea(); c.p
}
}.

import java.util.*;
class Bank
{   String name, Accno;
    int type;
    Scanner in = new Scanner(Syste
    void input()
    {
    System.out.println("Enter your n
    and Acc no.");
    name = in.next();
    Accno = in.next();
    System.out.println("Enter type of A
    1. Savings 2. Current");
    type = in.nextInt();
    }
}
```

```
class Savings extends Bank.
{
double deposit, rate = 0.04, withdrawal, balance;
int days, ch;
Scanner in = new Scanner (System.in);
void calc (String nm, String acc)
{
System.out.println (" Hello "+nm+" AccNo: "+acc);
System.out.println (" please enter your first
balance in Rs. ");
balance = in.nextDouble();
for(;;)
{ system.out.println (" Hello "+nm+". Account
No. : "+acc);
System.out.println (" What do you want to
do today ? \n Please enter \n 1. Deposit
\n 2. Withdrawal \n 3. View Balance \n 4. exit");
ch = in.nextInt();
switch (ch)
{
case 1: System.out.println (" Please enter the
deposit amount in Rs. ");
deposit = in.nextDouble();
System.out.println (" Please enter the no.
of days ");
```

```
days = in.nextInt();
balance += deposit;
balance *= Math.pow((1+rate/36500),
                    (365*days));
break;
case 2: System.out.println("Please enter the
withdrawal amount in Rs.");
withdrawal = in.nextDouble();
System.out.println("Please enter the no. of
days");
days = in.nextInt();
if (withdrawal > balance)
    System.out.println("Sorry! Insufficient
    Balance!!");
else
{   balance -= withdrawal;
    balance *= Math.pow((1+rate/3650),
                        (365*days));
}
break;

case 3: System.out.println("Balance : Rs"
        + balance);
    break;
```

```
default: System.out.println("Thank you for
         visiting !! ");
         System.exit(0);
         break;
}
}
}
}
class Current extends Bank.
{
double deposit, withdrawal, balance, minbal = 10000;
int days, ch;
Scanner in = new Scanner (System.in);
void calc (String nm, Str, acc)
{
System.out.println (" Hello " +nm+ " ;Account no: "
                    acc );
System.out.println("Please enter your first balance
in Rs.");
balance = in.nextDouble ();
for (;;)
{
  System.out.println ("Hello " +nm+ " Account No: "
      acc );
```

```
System.out.println("What do you want to do today? \n Please enter \n1. Deposit \n2. Withdrawal \n3. View Balance \n4. exit");
ch = in.nextInt();
switch(ch)
{
case 1: if (balance < minbal)
        { System.out.println("Penalty for not maintaining min. bal: Rs. 600");
          balance -= 600;
        }
        System.out.println("Please enter the deposit amount in Rs");
        deposit = in.nextDouble();
        balance += deposit;
        break;
case 2: if (balance < minbal)
        { System.out.println("Penalty for not maintaining min balance : Rs. 600");
          balance -= 600;
        }
        System.out.println("Please enter the withdrawal amount in Rs.");
        withdrawal = in.nextDouble();
```

```
if (withdrawal > balance)
    System.out.println("Sorry! Insufficient
      Balance");
else
    By balance -= withdrawal;
break;
case 3: if (balance < minbal)
    { System.out.println("Penalty for not
maintaining minimum balance : Rs.600");
      balance -=600;
    }
System.out.println("Balance : Rs." + balance
break;
default: System.out.println("Thank you
    for visiting!!");
    System.exit(0);
    break;
}
}
}
}
```

```
class BankMain
{
    public static void main(String args[])
    {
        Bank cust = new Bank();
        cust.input();
        if(cust.type == 1)
        {
            Savings custs = new Savings();
            custs.calc(cust.name, cust.accno);
        }
        else
        {
            Current custc = new Current();
            custc.calc(cust.name, cust.accno);
        }
    }
}
```