```
umpout java. util. 1
class account
            Coince & Pra Swamme ( System in);
                                    i I'mo Which
  String aust-name;
 long acc-no;
 double balance;
                   " ( baliant) to
 unt type-acc;
                         em 1 . St. ment Pour le ();
 Void unjut ()
                        belonce - belonce of aint;
      Scanner sc = new Scanner ( System. in );
     system out Print In (" exter account details").
     System out . println ("Enter customer rame");
      Cust-name = Sc. nent Line ()
     System. out. print In l'Enter customer account
                       () number il i mas low
         all_no=Sl. next fong ();
   System. out- Print in Center customer's account type
          1. Savings account 2. coverent account");
         type_all = Sc. next Intl);
         System. out. printlel'enter customer's balance
          amount in account");
         balance = PC. rest Doublec);
```

```
Void deposit ()
   Scanner St = Prew Scanner (System. in);
 System · out · println ("Enter amount to be
                              able halines;
                amt = Sc. next Doub le();
                              id white.
   balance = balance + amt;
        Sconner se new Seems of System 11)
4
U
 Class Sar-acet entends account
  Puster but Printer ("Enter more rome") ?
    double unteresting in 12 - sound tous
  byten out proteli Enter asterna account
   Void compute - interest ()
            all Inv = St. ment from ();
 Scannerec. new Scanner (System in);
  ("wint water time", branches opening
   System. out. Println ("enter state and
time period, );
      orate = Sc. nexthot();
     time = Sc. nextInt ();
```

THE SHAP

```
untivest = balance & math. poo (1+ viate /100.0, timo)-
                           balane:
System. out - Println ["Gompound interest = " + interest);
 balance = balance + Interest;
 System. out-println l'austomer's balance amount
                     is account \t"+balance);
  y
                 balance . balance - penalty:
 Void withdrawal () of alling by motife
             Jest & than minimum backence is
   Sammer St = new Scanner (System.in) 1,
   System. out. Print/n ("Enter amount to be withdraw n'i);
     with = St. next Double ();
     If (with > balance)
          System-out. Print/n/" withdrawal not
         possible due to Insufficiant balance");
              Maks lurr- acct entirels allowit
  else
         balance = balance · with;
      System out printin l'automer's balance
         amount (1"+balance);
     4
```

Void check () double Penalty; 1+ (balance 1 2000. 6) instant , ear that employed a lairer of an autist Penalt y = 200, 0; balance = balance - Penalty; System out . Printle l'halance amount leish than minimum balance"); System. out : Println ("Penalty of Ps. 200"); System-out Print In l'astorner balance amount un account (t' + balance); with = St. northwelle 1). 4 11 (10 th > balanc) Sycken . and print of withdrawal no & The offe for the printherough palmer,) class lurr-acet entinds account word withdrawal () amount (1" + believe);

Stanner sc= new Scanner (System in); double with; it would made and System. out. Printing enter amount to be withdrawn"); with = St. Next Double (); It (with , balance) wasters I don't have a hope Pystem. aut. Println ["withdraw! not possible due to insufficient balane"); else balance - balance - with; System out Print/n/ "Customer's balance amount in account |t"+balance)! Public static weed main (6thing angles) p y Vaid which () too - volumn = to too - vos Curs : dutes: new Lunardl), 17 (balance 2 2000.0) penalty = 200:0 jeniest. Logget palanie = balance - Penalty; (1 = = 1)

```
System out Println l'balance amount elever than
            minimum balance");
 System. out. printin ("Penalty of Ds. 200);
  System. out. Privith ("Customer balance amount | 1"
  die mbalance Vintedous Julian . hus miter
               to insufficient talone");
  4
3
class bank
      Public static void main (string angs [])
    Sar-aut of = new Sar-aut ()',
   Curr = acctod= new -Curr-acct()',
       Scanner Sc = new Scanner ( System in);
System out printh!" entr listomer's account
     type I. Savings allount 2. lurrent rement",
   unt ch = sc. nexthat();
   unt n'
  It tch = = 1)
```

```
02. unjut ();
oz. display ():
 System. out. println ("entr 1 deposit 2. with drawal);
  n=Sc. next Intl);
  1+ (n==1)
        61. deposit()
1f (n == 2)
         01. coith drawal ();
      0 I . lompute -interest ();
     01. Checkly;
  else + (ch == 2)
     0. a in put ();
     Od whyllay ();
    Syptem. out printle
     System. out printin l'entr 1. deposit 2. withdood ].
      n = sc. next Int ();
     15 (n==1)
         02. deposit();
    It (n==2)
            02 · w: thdrawal ()')
            02. Check()
       4
```

```
enter customer's balance amount in account
30000
----customer's account details----
customer name
               karthik
customer account number 34576897
customer's account type 1
customer's balance amount in account
                                          30000.0
enter 1.deposit 2.withdrawal
enter amount to be deposited
560
enter rate and time period
compound interest = 1234.6239999999998
customer's balance amount in account
                                          31794.624
...Program finished with exit code 0
Press ENTER to exit console.
```

```
import java.util.Scanner;
class account

{
    String cust_name;
    long acc_no;
    double balance;
    int type_acc;
    void input()

{
        Scanner sc=new Scanner(System.in);
        System.out.println("----enter account details----");
        System.out.println("enter customer name ");
        cust_name=sc.nextline();
        System.out.println("enter customer account number");
        acc_no=sc.nextLong();
        System.out.println("enter customer's account type 1.savings account 2.current account");
        type_acc=sc.nextInt();
        System.out.println("enter customer's balance amount in account");
        balance=sc.nextDouble();
    }
}
```

```
40
          double interest;
          void compute_interest()
 41
 42 -
          1
 43
               Scanner sc=new Scanner(System.in);
               int rate,time;
 44
               System.out.println("enter rate and time period ");
 45
               rate=sc.nextInt();
 46
               time=sc.nextInt();
 47
               interest=balance*Math.pow(1+rate/100.0,time)-balance;
System.out.println("compound interest = "+interest);
 48
 49
 50
               balance=balance+interest;
               System.out.println("customer's balance amount in account\t"+balance);
 51
 52
 53
          void withdrawal()
 54 -
 55
               Scanner sc=new Scanner(System.in);
 56
               double with;
 57
               System.out.println("enter amount to be withdrawn");
 58
               with=sc.nextDouble();
                                                              input
       ÷
customer's balance amount in account
                                          31794.624
```

39 - {

...Program finished with exit code 0

```
void display()
{
    System.out.println("-----customer's account details-----");
    System.out.println("customer name\t"+cust_name);
    System.out.println("customer account number\t"+acc_no);
    System.out.println("customer's account type\t"+type_acc);
    System.out.println("customer's balance amount in account\t"+balance);
}
void deposit()
{
    Scanner sc=new Scanner(System.in);
    double amt;
    System.out.println("enter amount to be deposited ");
    amt=sc.nextDouble();
    balance=balance+amt;
}
}
class Sav_acct extends account
{
    double interest;
    input

mer's balance amount in account 31794.624
```

ogram finished with exit code 0

ENTER to exit console.

```
78
79 }
80 class Curr_acct extends account
81 {
        void withdrawal()
82
83 -
84
             Scanner sc=new Scanner(System.in);
85
             double with;
             System.out.println("enter amount to be withdrawn");
with=sc.nextDouble();
86
87
88
             if(with>balance)
                 System.out.println("withdrawal not possible due to insufficiant balance");
89
             else
90
91 -
             1
92
                 balance=balance-with;
93
                 System.out.println("customer's balance amount in account\t"+balance);
94
             }
95
96
         void check()
97 -
```

```
System.out.println("enter amount to be withdrawn");
with=sc.nextDouble();
 58
 59
               if(with>balance)
                    System.out.println("withdrawal not possible due to insufficiant balance");
 60
 61
               else
 62 -
               1
 63
                    balance=balance-with;
                    System.out.println("customer's balance amount in account\t"+balance);
 64
               }
 65
 66
          void check()
 67
 68 -
 69
               double penalty;
 70
               if(balance<2000.0)
 71 -
 72
                    penalty=200.0;
                    balance=balance - penalty;
 73
                      /stem.out.println("balance amount lesser than minimum balance");
/stem.out.println("penalty of Rs.200");
 74
 75
                    System.out.println("customer's balance amount in account\t"+balance);
 76
                                                               input
customer's balance amount in account
                                           31794.624
```

57

...Program finished with exit code 0

```
119
           if(ch==1)
 120 -
 121
               o1.input();
 122
               o1.display();
                  stem.out.println("enter 1.deposit 2.withdrawal");
 123
               n=sc.nextInt();
 124
               if(n==1)
 125
                   o1.deposit();
 126
               if(n==2)
 127
                   o1.withdrawal();
 128
               o1.compute_interest();
 129
 130
               o1.check();
           }
else if(ch==2)
 131
 132
 133 -
               o2.input();
 134
               o2.display();
 135
               System.out.println("enter 1.deposit 2.withdrawal");
 136
               n=sc.nextInt();
 137
                                                          input
customer's balance amount in account
                                       31794.624
```

int n;

118

```
double penalty;
         if(balance<2000.0)
             penalty=200.0;
             balance=balance - penalty;
              System.out.println("balance amount lesser than minimum balance");
              System.out.println("penalty of Rs.200");
             System.out.println("customer's balance amount in account\t"+balance);
         }
     }
 }
class Main
     public static void main(String args[])
     Sav_acct o1=new Sav_acct();
     Curr_acct o2=new Curr_acct();
          Scanner sc=new Scanner(System.in);
       /stem.out.println("enter customer's account type 1.savings account 2.current account");
      int ch=sc.nextInt();
mer's balance amount in account
                                 31794.624
```

ogram finished with exit code 0

ENTER to exit console.

```
o1.withdrawal();
129
              o1.compute_interest();
              o1.check();
130
         }
else if(ch==2)
131
132
133 -
134
              o2.input();
              o2.display();
135
              System.out.println("enter 1.deposit 2.withdrawal");
136
              n=sc.nextInt();
137
              if(n==1)
  o2.deposit();
138
139
              if(n==2)
     o2.withdrawal();
140
141
142
              o2.check();
143
144
    }
145
146
147
```

128