2.
```
import java.util.Scanner;
class Account
{
  String name, acc_no;
  int type; double bal;
}
class Sav_acct extends Account
{
  double ci, bal, dep, with, time, rate, min;
  void setData (String n, String an, int t, double b)
  {
   name=n;
   acc_no = an;
   type=t;   bal=b;
  }
  void dep_acc (double d, double b)
  {
   dep=d;
   bal=b;
   bal= bal+dep;
  }
  void display()
  { System.out.println("The total balance of
  the customer is: "+bal);
  }
  void interest (float Time, float r)
  {
    time= Time;
    rate = r;
    ci= bal
    bal= bal*(Math.pow((1+(rate*0.01)), time));
    ci = bal-ci;
    System.out.println("Compound interest: "+ci);
    System.out.println("Balance after depositing
      interest: "+bal);
  }
```

```
void withdraw(double w)
{ Scanner sc = new Scanner(System.in);
  double m;
  wit = w;
  if (wit > bal)
  System.out.println("Your withdrawal amount
  exceeds your balance amount");
  else
  {
   bal = bal - wit;
   System.out.println("Your balance after withdrawal,
   is: " + bal);
   System.out.println("Enter minimum balance allowed");
   m = sc.nextDouble();
   this.minimum(m); }}
void minimum(double m)
{
  min = m;
  if (bal < min)
{ System.out.println("Your balance is less than
  the minimum amount");
  System.out.println("Your total balance is: " + bal);
  }}
}
class curr_acct extends Account
{
  double bal, dep, wit, min, penalty;
  Boolean cheque;
  void setData(String n, String an, int t, double b)
  {
  name = n;
  acc_no = an;
  type = t; bal = b;
  }
  void dep_acc(double d, double b)
  {
```

```
dep = d;
bal = b;
bal = bal+dep;
}
void display()
{ System.out.println("The total balance of the
customer is :"+bal);
}
void withdraw(double w)
{ Scanner sc=new Scanner(System.in);
  double m; float p;
  wit=w;
  if(wit>bal)
  System.out.println("Your withdrawal amount
  exceeds your balance amount");
  else
  { bal = bal-wit;
    System.out.println("Your balance after
    withdrawal is :"+bal);
System.out.println("Enter minimum balance allowed and
Service charge percentage");
// m=sc.nextDouble(); p=sc.nextFloat(); this.minimum(m,p);
  void minimum(double m, double p)
  {
    penalty = p;
    min = m;
    if(bal<min)
    {
    System.out.println("Your balance is less
    than the minimum amount");
    bal= bal- ((min-bal) * penalty * 0.01);
    }
  System.out.println("Your total balance is :"+bal);
  }
}
```

```
class AccountMain
{
  public static void main(String args[])
  {
    int s_no_cust, c_no_cust, i, ch;
    String n, an;
    double d, b, w, m;
    float Time, r, p;
  Scanner sc=new Scanner(System.in);
  System.out.println("Enter the number of
  customers with savings account");
  s_no_cust= sc.nextInt();
  System.out.println("Enter the number of
  customers with current account");
  c_no_cust= sc.nextInt();
  Sav_acct obs[]= new Sav_acct[s_no_cust];
  Curr_acct obc[]=new Curr_acct[c_no_cust];
  if (s_no_cust>0)
  System.out.println("--- Savings account ---");
  for(i=0; i<s_no_cust; i++)
  {
  obs[i]= new Sav_acct();
  System.out.println("enter "+(i+1)+" customers
  name and account number");
  n= sc.next();
  an=sc.next(); b=sc.nextDouble();
  obs[i].setData(n, an, b);
  System.out.println("Enter the current balance
  and deposit amount");
  b=sc.nextDouble();
  d= sc.nextDouble();
  obs[i].dep_acc(d,b);
  obs[i].display();
  System.out.println("Enter the time period
  and rate of interest");
```

```
Time = sc.nextFloat();
r = sc.nextFloat();
obs[i].interest(Time, r);
System.out.println("Enter the withdrawal
amount");
w = sc.nextDouble();
obs[i].withdraw(w);
System.out.println("Enter minimum balance
allowed");
m = sc.nextDouble();
obs[i].minimum(m);
}
if (c_no_cust > 0)
System.out.println("--- Current account ---");
for(i=0; i< c_no_cust; i++)
{
obc[i] = new Curr_acct();
System.out.println("Enter "+(i+1)+" customers name
and account number and current balance");
n = sc.next();
an = sc.next();
b = sc.nextDouble();
obc[i].setData(n, an, 2, b);
System.out.println("Enter 1 if the customer has a
cheque book else press 0");
che = sc.nextInt();
if (che == 1)
obc[i].cheque = false;
System.out.println("Enter the deposit amount");
d = sc.nextDouble();
obc[i].dep_acc(d);
obc[i].display();
System.out.println("Enter withdrawal amount");
w = sc.nextDouble();
obc[i].withdraw(w); }}}
```