```
4
```

```
Empart Java. util , ;
abstract class Shape
 Ortab;
 abstract word pront Area ();
y
  class Rectangle extends Shape
  nord pront Area ()
   Sconner 83 = new Scanner (System, th);
   Eystem aut pronten (" Enter length and breadth of the
    az 88, nextlnt ();
    b = SS. nextInt();
    double area;
    area = (double) ax b;
    Lystem. aut. prontin La The aread Rectangle & 4 + area);
    dass Triongle extends shape
    usid prostareal)
    8 cenner Bl = new Scanner ( Bystem. In);
    Eystern. aut. prentln (" Enter base length and neight of the
     a > ss. nextInt();
     bo ss. next(nt();
```

```
double area;
 area = (double ) 0.5 * a * b;
Lystem. out. pronten (The aread Troongle is " + area);
dass corde extends snape
wid prontarea ()
Branner 832 new Scanner (System. tr);
 Lystem aut, paortln C" Enter, radius of the wile";
  az ss. nextlnt();
  double area;
 area = (double) 3,14 = a + B;
 Eystern, aut pronten L" Ane and f lorde is "tarea);
Class Shapeman
 public static noted maior ( Grong args [])
   out ch;
   Scanner 882 new Scanner Coystem. On);
   Rectangle 72 new Rectangle ();
    Trangle to new Trangle ();
    lade c= new larde ();
     whole (true) &
     System, aut. prostln (" Enter the choice of snape whose area
                                               has to be cabulated ");
     Bystem. aut. prontln [41. Rectangle Ind. Triangle Ins. Cocle In 4. Reit )
```

```
Ch= 88. nextIntl);
Sween (gh)
case 1:
7. pront Area ();
 break;
 case2:
 tipantArea ();
 break;
 case 3;
 C. 12 int Area ();
 break;
 case 4:
 System @ ext (0);
  break;
  default;
 Eystem. aut printen (" Invalled charcel").
```

```
Emport Java, util. Scanner;
abstract dass Account E
 Strong c Name, ace Type;
 long aceNo;
 double but;
  Find double marsal = 1000.0;
Auaunt (Strong eName, long Aano, double bal, Strong acc Type) ?
     this ace No = aaro;
     this. cnamez cname;
    this bat = bat;
    this actique = actique;
 4
   abstract noted add Bar (double ant);
  abstract rold displace();
   abstract noted with Bal (double amt);
class Curr-aut extends Account ?
  Cuer-out (Strong crame, long acero, double Bal) &
  Super (c Norme) aano, bal, "aurent");
  System. aut . perinten L"Name; "+ &Name +" \ taucno: "+accordo
                                   + 11\bal: "+bal+ " ttype:
                                       " tacitype);
need add Bal Cowuble comt) {
 thes. bal += amt;
 System. aut. pontln (" yane balance is: "4 this, bal);
nord dipBar () {
```

2

```
mated check Bal () &
   & (this, but < monBut)?
        Lystem. aut. parten l'amplécient balance, penaity apposed ");
        thes, bal = this, bal *6.02;
   y
    word with Bar (double amt) &
      this Bal = - anit;
      Ched Bar ();
  Y
days Sav-aut extends Accounts &
   Sav-aut (Strong crame, long au No, double but) {
    Super ( cName, aceNo, bal, "Sawings");
   Lystem. aut, paorth ("mame: "+cvanie +" 1 taccro: "
                   + "Itbal: "+bal + "(ttype: "+ aciType);
hated add Bal (double annt) &
    this, bal + = ant;
   addentr ();
4
noted addIntr() {
   td addIntrC) 2
this, bal + = this, bal × 0.07;
y
 naid disp Bal () {
   Eystem. aut. prontin (" Yaux bulance &: "+ this, balance);
```

```
noted with Bal (dauble annt) &
   Hrs. bat=amt;
 class Bank ?
   public static naid mad (Strong [Jargs) ?
     Sconner 3c= new Scanner (System, On);
     Pauble ant;
          Lystem, aut pronten (" Enter your details!");
          System aut pronten (" Name");
          Strong x= sc. next ();
          Lystem. aut. pronth (" Account Mumber: ");
          long 4 = Sc. next long ();
         for (;;)
        System. out peorten (4 Type of account: Int. werent account
                              Ind. Sanongs audunts (n3. Ext ");
         Out t 2 8c. nextlnt();
       Ef (t==1)8
          System. aut, prontly l'4 me wirent account pravides
             Cheque book facility but no orterest:" );
           cuer_ aut C= new luss_act (x14, 50000);
        Sor (53)
       System. aut prontln ("1: Depart Ind. Dieplay Balance In3:
                              withdraw \nY: Exit);
        Out ch = Sc, nextent();
        Switch (ch) {
```

```
Case 1;
Lystem. aut prontln (" Enter the amount to be addedin);
  amt = sc. next Dauble ()
   c. add Bal (amt);
    break;
 case 2:
   c. dup Ball?
   break;
 case 3:
  Lystem. aut prontly ("Enter the amount to be withdrawn; ").
   amt 2 6 c, next Dauble ();
    C: with Bal (ant);
    break;
    Case 4: System , extt(0);
    default: System. aut. prostln ( "Anwalld choice! Try agas");
else of (t==2) &
    dystern. aut. pronth (" The sawings account provides compained onterest and methodraul factities but no
                        cheque book facelety. " );
       Sav-aut 8 = new Sav- aut (x,y, 5000);
      for (;;) &
      Lystem. aut . prouten C" 1. Depast M.D. Display Balornel
                              In3: huthdraw In4: Exet ");
```

```
ant ch = sc.nextent ();
Switch (ch) {
case 1:
dystem. aut. prodle (" Enter the amount to be added:");
  amt = 8c. next Dauble ();
  S. addBal (amt);
  beeck;
cased:
 g. display
 g. disp Bal ();
 break;
 case 3:
Lystem aut parten (4 Enter the amount to be mithdrawn; ");
  amt = SC pert Dauble ();
  s. with Bar (ant);
  break;
case 4: System. exit(0);
   default: System. aut. printen (" Small Choice! Try agat");
eseqCt==3)
dystern. aut ext(0);
Lystern aut. punten (" Annated charce! Try agas");
```