```
Week 8
      abstract class Shape {
        int 6,h;
       Shape (int 6, inth) {
         this. 6 = 6;
         this h = h_i
     Void print Area () { };
class Rectongle extends Shape {
     Rectongle (int 6, int h) {
          super (6, h);
   Void print Areal) {
      System. out. princh ("Area of the rectongle is "
      (6*h));
class Triongle extends Shape {
     Triongle (int 6, inth) {
          Super (6,h);
   Void print Area () { System out println ("Area of
                     the triongle is " + ((6th)/2));3
```

```
Class Circle Extends Shape &
      Circle (intr) {
      ¿ super(r,r);
    Void Print Areal) ?
      System. out. println ("Area of the circle o"
  3; (Math. PI *h*h));
                              1 101
public class Prog1 {
    public static void main (Stringargs[]) {
         Rectongle rect = new Rectongle (10,5);
         Triongle tri = new Triongle (10,5);
         Circle c = new circle (int 10);
        rect. print Area ();
         tri. print Area ();
         c. print Area();
                 garage to the second of the second
                  in the second
```

```
2) import jana util . Sconner;
  dass abstract class Account ?
String Name, AccNorm, accType;
      Sconner sc = new Sconner Csystem.in)
     Account (string name, String accesso,
               String acctype) &
           this. cNome = nome;
           this . acc Num = acc No;
         this. acctype = acctype;
 Account () { 3
class Current Acc extends Account {
       private double balon ce = 5000, rate=0.06;
private coaleon con withdraw = false;
    Current Acc (string nome, string accro, String Recty)
       Super (nome, acc No, acctype);
        System.out.println(" & Welcone "+ cName);
 void get balonce () {
           Septem. aut: format ("Your lealon a: 1.2 Hy)
                  , (slonce);
```

```
Word deposit (double omaint) {
     char chaice;
      System. out, princh (" Deposit. Account helder:"
         (Name + " Amount: " + amount);
    System. out. printm (" DApprove Deposit (Y/N):")
    chaire = Sc. next(). charAt(0);
   if (chaice = = 'y' 11 chaice = = 'y') {
lealance += amount;
           Suystem. out. println (" Deposit approved. Updaded
                      lealone: " + balone";
    3 else g
            System.out. println ("Deposit not approved;
Void with draw (double arrownt) {
Septem out proxitation this a count connet

upothdraw oney pends");
hoid check nin Amount () {
                if ( halonce < 3000) {
                       halonce -= 500;
                   System. print ("Bolones is below level");
System out print (* Penalty imposeds);
```

```
dass Savings Acceptends Account &
    private double balonce=5000, rate=0.06;
   Sawings Acc (Strong nome, Strong acc No, Strong
    acc Type) {
          Super(nonce, acc No, st actype);
         System. part. prinkn ("Welcome" + < None);
uaid get Balonce () 2
       System. out format (" Your Balonce: 1.2fm",
                         bolonce);
void deposit (double omment) ?
  char chaice;
   System. out. println ("Deposi & oproved
  Deposit: Account holder: "+ < Nome + Amount
  + Ameent);
 System. out. printh ("Approve Deposit 2(53)! ").
 chaire = sc. next(). cherat(0);
if (chaice == se next(). chay Alcor; 'YIH chaice='y'){
          leslonce += amount;
         System out printle (" Deposit appround.
          Updated Bolonce: + bolonce);
```

```
cole Interest ();
   check Min onwent ();
 Jelse &
        System out println (ANBI "Deposit not
                                    approved ").
usid Cale Interest () {
     Louble CI;
   CI = halonce = (Math. pow (CHrate 1100), 2),
    bedonce += CI;
    System.out. printh ("Interest Added.");
void withdraw (double someont) {
       Char choice ;
    if ( balonce < omeent) {
           System.out. printer ("Account Balonce is lower than Amount to be Withdrawn).
        return;
 System. out. prinder ("Approve" + cName +"1s
        request for withdrawal? (/N) ");
  chaice = &c. next() . charAt(0);
   if ( chaice == 14111 chaice == 141) }
           belonce 0-= onseent
```

```
System. out. println (" withdrawal approved.

Up dated Balonce: "+ balonce);
      colle Interest ();
check nun Amount ();
 3 else g
          system out . println ("withdrawal not
                                    approved ");
void check nin Amount () &
            int min amount = 3000, penalty = 500;
        it ( belonce & min Amount ) {
                 balance - = penalty;
   System put printh ("Bal is under minimen
onwent to be maintained");
  System out. println ("Penalty imposed");
     The transfer of the their
      and the first that the continue of.
```

```
public class Book &
  public static vaid main (string [] args) &
        intc;
      double temp;
     String nonce, acc No, acc Type;
     Sconner sc = new Sconner (Systemin).
    System. out. printh ("Enter Nome: ").
    nome = neathine ();
   System. out. prinkln ("Enter Account name!")
   accNo = &c next lines
  System out println (" Enter typ: ");
  acc Type = sc. nextline();
 if (accType.charAt(0) == 'c1) {
        Current Acc a = new Current Acc
                     nome , acc No , acc type);
 while (true) {
         System. out. printh ("1. depostet In
         2. Withdraw money In 3. Dis play Money In
        4. Exit //;
    c= &c. next Int
```

```
switch(c) 5
       case 1:
            System out printh (" Enter oneant
           to be deposited: ");
         temp = sc. next Double ();
         Ox a deposit (temp);
         lireak;
    case 2: { System. out. println (" Enter me
            onwent to be with drawn: 1).
        temp = sc. next Double ();
        a. with draw (temp);
        break;
  case 3: 5
       a. get Bolonce ();
       weak;
       System.exit. (0);
       weak;
default: System (« Enter correcto ptrois").
```

```
alse of (accomple. chartat(0)== 18) §
   Savings Acc a = new Savings Acc (nome, accho
                              accType);
  while (true) §
           C=Sc. nextInt();
  Switch (c) 5
     Case 1: $
           System out println (" Enter
           omaunt ");
         temp = sc. neat Double ();
         a. Lywesit (temp);
         lireak;
  case 2: 5
       System.out. println ("Enter omaint
        to be withdrawn: ");
      temp= sc. next Double ();
     a with draw (temp);
     break;
```

```
case 3: 9
      a get Balonce ();
      tereak ;
        System. exit (0);
         lereak;
default: System. out-println ("Enter the
        correct options ");
3 else 2
      Syptem. out. printn ("Enter valid teype ... Exiting)!
```