ODJ Lab Escercies - 4 and 5 [Xluk 8]

+) Jab-4:

import jova.util. *;
abstract class Shape abstract void printArea ();

class Rectargle exterols stope

void printarea ()

Scanner ss = new Scanner (Septem.in); Septem out. println ("Enter length and breadth of the

rectargle ");

a=ss. restInt(); b=ss. nextInt();

double area;

area = (double) a*b;

System out println ("The area of Rectargle is "+ area);

class Triangle extends stape roid printAreaco Scarner ss= new Scarner (system, in); Septem out, println ("Enter base length and height of the triangle "); a s. next ent () b=ss. next Inter; double area; rarea = (double) 0.5+a+b; Septem out plintln ("The area of triangle is "tarea). class circle extends shape void printArea () Scanner SS = new Scanner (Septem.in) System. out. printtn ("Enter radius of the wicle"): a=ss, restInt(); double area; area = (double) 3.14 * a * a;

System. out. println ("The area of Circle is " +area); dass Stoperain public static void main (string args []) int ch; Scarrer Scarrer (System, in); Rectargle r= rew Rectargle (); Triangle t = New Triangle (); Tircle c = new-Gircle(); nohile(true) (System. out, println (" Enter the choice of shape whose area has to be calculated"); Exetem. out. println ("1. Rectargle \n 2. Triangle \n 3. Circle 114. Esut); ch = ss. next ent(); switch (ch) r. printArea (); brak;

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rase 2
    t. pinterea ();
    break;
   rase 3
     c. printAlea ();
     break;
     case 4:
      System. escit (0);
      break;
     default:
     System. out. println ("Invalid shoice!");
a set widte ("blietagle In 2. Though in
```

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*) Lab-5:
   import java. util .+;
  abstract class Account C
     String a Name, acctype;
     long accro;
    double bal;
      firal double minbal = 1000.0;
    Account (String Name, long acc No, double bal,
                   String occtype)
     this acc No = acc No;
      this . c Name = c Name;
     this , bal = bal;
     this accorgre = accorgre;
   abstract void add Bal (double amt);
   abstract void dispBal ()
   abstract void with Bal (double amt):
 class Curr. acet extents Account C
        -Eurr-act (String a Name, long ace No, double bal)
```

super (c Name, accNo, bal, "current"); lysten , out println ("Name: "+ cName + ") t accno: "+ acc No+" \t bal: "+bal+" \ttype: "+acctype); void addbal (double amt) &

this bal += amt; void disp Bal () E System. out. println (" your balance is ; ", this bal); void checkbal () if (this bal <mirbal) {

Lepstern out println (" Insufficient balance, peraly this bal - = this bal *0.02; void with Bal (double ant) C Hhis bal -= amt; rheckBal ();

class Sax acet extends Account & Sax accet (String crame, long accNo, double bal) (super (c Name, acc No, bal, "Savings"). System. out. println ("name: "+cName+")t occno: "faceNo+" | t bal; "+ bal + " | t type: "+ void addbal (double ant) (this, bal +=amt; add Inta(1) void add Intr () E this bal += this bal *0.07; Septem out. peintler ("your balance is" + this bal; void with Bal (double amt) &
this amt -= amt;

dass Bank (public static void main (etting [] args) (Scanner sc = new Scanner (System in); Double ant: legetem . out . peintln ("Enter your details:"), System out println ("Name? "5") String X=Sc. reset(); System- out. printle ("Account Number: "); long y=Sc. restlong() Septem out println (" Type of succent; m, Coursent scount (n2. Savings account (n3. Eseit) int t = sc. next (ntc); 4(t==1) { Septem out println ("The wrent account provides chaque look facility but no intent Cour act c = New Cuer act (x, y, 5000) Septem. out-println (" 1. Deposit m 2, Display Bolana (n 3. Witholian (n 4. Exit);

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int eh = sc. rext sortes;
  switch (ch) C
  case 1:
    Septem out frintly (" Enter the amount to be
       aunt = sc rextDouble ();
       c. addbal (amt);
  Case 2:
       c. disp Bal ();
       break;
               smiles (ch) blines
      system out printly (" Enter the amount to be
witholeum");
        ant = sc. rest Double ();
c. with Bal (amt);
  ase q:
System. exit (0):
                       use my ak
  default:
     System out printle ("Imalit choice! Try again")
```

che if (t==2) (System. out. println ("The savings account provides compount intered and withdrawal facilities but no chaque book facility"); Sav-act s = new Sav-act (x,y, 5000) for (;;) Septem out println ("1. Deposit In 2. Display Balano In 3. Withdranal (n 4. Escit"); int ch = sc. restInter; switch (ch) L Casel: System-out. println ("Enter the amount to be ant = Sc. next Double (). S. add Bal (amt): break; case 2: c: dispbal (): case 3: System. out printle (" Enter the amount to le withdrawn"); amt = sc. nesct Double (); c. withbal (amt);

case 4: System exit (0): default: System out println ("Imalid choice! Try again"). else if (t==3) System. exit(0); else Septem.out. println ("Smalid choice! Try again");