```
LABS
03/11
           abstract class shape # /
       import java. util. scanner;
       abstract class shape f
              double dima, dima;
             snape (double a, double b) {
                    dim1 = a:
                    dima= 5:
           abitiact double printarea() { }
      class rectangle extends snape {
       rectangle (double a, double b)
            super (a,5)
        double printareac) {
         system. out. printly ("AREA OF RECTANGLE");
          return dime + dime;
```

class triangle extends shapes
triangle (double a double b) {
super (a, 5) }
double printarea () [
system. out. printly ("AREA OF TRIANGLE:"):
seturn dime + dime /2;
)
}
etass circle extends shape {
circle (double a, double b) {
super (a, 5);
}
double printareacli
system. Out. printen ("AREA OF CIRCLE");
return (3.24 + cdim1 + dlm2));
3
}
elass shape Main {
public static void main (string (5 27) {
rectangle = new rectangle (a: 20, 5:10);
triangle t = new triangle (a: 10, 5:10):
triangle l = new triangle (a: 10, 5:10); circle e = new circle (a: 10, 6:10)
 system. ow. println (" "+r. print areact);
system. out. printlu (" - " + t. print area (11;
System. out. printlu (" " + c. point area());
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<u>(3)</u>	/* Bank account */
	import java. util. Scanner;
	class Bank &
	string Bankname;
	ζ
	class accounts extends bank f
	scanner se = new scanner (system.in);
	string name, acctype;
	double acchum;
	double sacenum, caccunum;
	elousie ci;
	double rate, principal, year;
	0.01/
	system out printly ("customer name:");
	name: se nent();
	system. out. print (" Account type : "):
	acceype = sc. next-c);
	system out print ("savings acc num!);
	saccount = sc next Double();
	system out. print (" current acc num:)
	cacenum = se next Doublec);
	>
)
	class savings extends accounts {
	Scanner se = new scanner (system, En);

double deposit, withdraw, phadancel, borrow
tend, rates, years, rates, year 2, ci,
double cid, cib:
void (d 2 () }
system. out. printle ("In SAVINGS ");
System. out. print ("present BALANCE");
p balance 1 = sc. nent Double();
system. out. print (" Deposited : ");
deposit = se. next Double c);
system. out. print (" WITHDRAWN: ");
with draw = Sc. next Double ();
phodance 1 = (Phodance 1 + deposit)
- (with do cus);
)
void compint (){
system. out. printly ("++ Bosowed amount x+");
system. out. print ("enter amount borrowed");
borrow = sc. next nousle (1)
eystem. out. print (" rate of borrowed");
rates = sc. nexthouste ();
system. out. point (" NO. of years borrowed");
years = sc. next Double ();
cib: borrow + (Matt. pow (1+ (rates * 0.01), years)
cid: cend * (Mash, pow (1+ (rate; *0.01), years);
i (cio x cib)(
ci = cio- cib;
phalances: phalance reid;
system. out. printh ("In Acconiance - ")
1 phalance 1);
Scanned with CamScanner

	else il feid > cid) [
	ei = ei0 - eib;
	photonce 1 = photonce 1 - cib;
	System.out. printle ("In Acc Bal:"
	+ psalance 1);
	}
	9235
-	system. out. pointly (" comp int is zero
	AND ACCOUNT BALANCE IT " + Photonice).
	}
	}
	evass evisent extends accounts
	Scanner Sc = next Seamner (system.in);
	double deposit, withdraw, pratances, min;
	5
	void setd 2 () {
	systemous print ("11 current ");
	system. out. print (" present balance ");
	phatances : sc. next Double ();
	system. out. print ("Deposited:");
	deposit = sc. nexthousle();
	system out. print ("withdraw"):
	with down = sc. next Double ();
	produce 2 = (produce 2 + deposit) - willedia
	}
	void elneckmain () f
	nin: 2000;
	int penalby = 2000;

	i (Cobalance 2 >= min) {
	system. out. point ("min bas is maintained "produced"
)
	else of Capadances < min) {
	system. out. point ("min bal not mainted");
	system.out. print (" penaly " + penaly):
	system. out. print ("original value: "-pudanez);
	phalances : phalances - penalty;
	system. out. println C"After ded" bal" + phalances);
	3
	ette
	system. out. println ("Invalid amount in sank");
	5
	}
	ciais Banumain {
	public statric void main (string ss[7) {
	scanner se = new scanner (system. in);
	account? a = new account(();
	savêngs s = new savêngs(1)
	corrent c = new consent();
	a. serd c);
	Bystem. Out. printly (" In TRANSACTION DETAILS");
414	s. set @ 1 ();
	c. seled 2 ();
	system. out. Printer ("1n Bank underted Bolacce")
	system. out. pointin ("savings are nom ("a. samoun)
	"+" -+ "+5. pbalance 1"+ 21);
	system. out printh ("corrent ace non ("a caccard)
	"+" -, + & pasobole e 2 "121);

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system. out. printlu (" concent account
min balance);
e. du éche marên CI;
system. out. printin (" INTREST ealeulation
¹);
s.conpinter;
ζ
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