```
Lab @ progodam 4: - Jeock 8:
1) abstract day shape
    int side 1, side 2;
    double area
   abstract void pring Area ():
 class Rectangle extends shape.
   Rectangle (intest, int b)
    side1= L:
    Side a = b;
  () sess frisg bior
   area = side 1 * side 2;
   System.out pointln ("The area of the Rectayle is: "+ area);
class Triagle extends shepe
  Triayle (inth, int b)
     side 1 = h;
     Side 2 = bi
  void print Alex ()
   olea = 0.5 * side 1 * sided;
  System. Out. println ("The Alee of the Triargle is: "+ area);
            page
```

Mars Circle extends Shape (int) _side 1=h; void Birt Ales () alle = 3.14 * side 1 * side 1; System. Dut. println ("The Area of the circles is: "+ area); class Chape Main public static void main (String ange) Rectargle rect = new Rectargle (5,6): rect, print Alea(); Tringle thi = new Tringle (5,8); Pri. priva Alea (); Cisile Un = ven Circle(10); Us. Print Alea ();

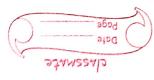
The area of the Rectagle is: 30.0 The Area of the triangle is: 20.0 The Area of the Circle is: 314.0

	1
Lab 5 program: (week 8):	
	6
impost java. util. Scanner;	-
import jana. Meth;	-
	-
class Account	1
d Company	4
Scanner SS = new Scanner (System.in);	+
String acc_name = acc_no;	-
int acc type; and i show my war I when the miles	\parallel
double blence;	#
Void (reateAccount ()	\parallel
and the state of t	#
System. Out. println ("Enter the Destails of the new account:");	-
System.out. printfa ("Name: (");	1
acc_name = ss. next();	L
System. out. printf ("I deal Account number: ");	_
acc-wo=ss. vext();	_
ib (acc-type==1)	
1 Charles of 10	-
System.oct. Plintf ("Enter the fixt Departe Value: ");	
balence = Ss. next Double U;	
System.out. Print f ("Thank you for creating an Account "),	-
<u>}</u>	Forest
else	-
1	
System and printf ("Enter the first Deposite Value (above 1000): ");	Terrettagion
Salsalance = SS. rext Double ();	ar south
System. out. printf ("Thank you for creeting an Account in you will receive your cheque book");	Free States
2 you will there your cheque book ");	(See Lo
	Newson

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String got A wound No ()
 { return acc-no; }
void Display()
   System. out, printly ("The Account Details are given as follows:
   System. out. print la ("Name: "+ acc_name);
   System. Out : println ("Account Number: "+ acc- no);
 if (acc-type ==1)
        System. out println (" Account Type: Sorving Accounts");
   else
      System. out. println! Account Type: (whent Accounts ");
 olykun. out. println ("Balance: "+ balence);
class Sow_Acct extends Account
void withdraw ()
    double amount;
    System. out printly ("Fonter the amount to be withdrown: ");
    answet = St. next Double ();
   bolanco -= amount;
void deposite ()
    double around;
  System out printen ("Enter the amount to be Deposited: ");
    amount = S. next Double ();
    balance + = amount
 void compound interest ()
    toyte years_of_dep;
    System. out. Printen ("Enter the number of years of comparand interest: ");
    year s_of codep) = SS. next Byte ();
    instruction (bealance * math. pow (1+ 45/00, years of dep)) - balance;
    System but. print In ("The compound interest is: "tinterest)
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class Curr Acct extends Account
 void withdraw ()
   System. Out. println ("Worning: A minimum of 50 00 balance num + be
   double amoust
                   meintained In to If failed, apenelty of Rs 100
                    will be imposed.");
  System . Out . print in [" Finter the Amount to be with obrewn: ");
  amount = 15. next Double ();
  balance -= amount;
  penaltycheck();
void deposite()
  double amount;
  System.out. println ("Enter the amount to de Deposited: ");
  amount = 15. rext Double ();
   balance + = amount;
void penalty check()
if (balance <5000)
 int pen=too;
  System.out. psintln ("The balance is loss other 5000 a penelty
             d R.100 is imposed. ");
     balance - = pen;
 3
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den Bank	
public startic void main (Strings args [])	
The same of the sa	
sou-Acet Sacrt []= new Soir-Acet [10];	
() r=Acot (-acot () = new () Acot (10);	
Scanner SS = new Scanner (systemico);	
String acct no;	
int ch, 1=0, j=0;	
while (true)	
· · · · · · · · · · · · · · · · · · ·	
System. out. Printly ("Welcome to the bank. \n");	
System out . println ("Enter the action to be performed: ");	
System. Out. Printla ("1: (reste a Sarings Account In 2: breste a Cube	ut Account 12j
System. Out. Print dn ("3: Deposite In 4: Withdrew In 5: Display Bola	ncela
6: cheek (onepoind Interest ");	
System out print In ("Enter your choice: ");	
ch = Ss. veset Tut ();	
Switch (ch).	
(to keep a survey as to know the wall particle, there with the	
coye 1: 5_act[i] = new Say_Acct ();	
S_acot [i] =. acc-type=1;	
S-acet Cil. breate Account ();	
1++;	
breek; when some was come I will may to a write	Post.
ose 2: (-actlil=new (urr_Act()) illien il conte	
(-act[i]. acc-type=2;	
(-acci [i]. Greete Account ();	
14+; (() olik jigg & bag (4) top 1) shings out all	
bleak;	
core 3: System. Out. print la [" Enter the account number:	n);
acutro=ss.next();	
for (in K=0; K < j; K ++1)	
ĺ	
2	



1,2127	
ib (acctus, equals (c-a cut [K] get Account Nol])	
	h .
System. Out. print ln ("This Account is a current	
Account "];	1
C- aut [F]. deposite ();	
3	
1 the count I was a second	
- for (ind K=0; K<1; K++)	
if (acit no. equal: ((-acit (F).get Acionst Nol)))	
	11).
System out Println ("This Account is a current Account	(/)
Caut[x].deeperite();	
- the same and the	
- 10 - 300 of the weak Color manager of Juliana knowledge	
for (int K=0; KK1; K+1)	
I was a comment of the water	
if (actno, egiclo (s-acct[x], get Account No()))	
(di) detrice	
System. out. plintln ("This Account is a Saving Account ");	
S-acct (F) deposite () just and was literally most	
- Charachand Librar ?	
- break;	
. (age 4: System. out. printly ("Enter the accust number: ");	
autro= ss. rext(); (it is _ add) con = (it is _ add)	
- for (int K=0; K <j; k+t)<="" td=""><td></td></j;>	
(Okacana sand lilena)	
ib (acutno. equels (Cacut (x). get Account No ()))	
{al=0[al	
System out println ("This Account is a current shour."	,);
Caut [K]. wishdraw ():	
[(mail=x;0=a ki) con	
3	
(noo)	
classante	

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for (int K=0; KKi; K++)
        is (acctno. equals (S. acct [x). get Acctout No()))
            System out printly ("This Account is a sarry Account.");
            S-aut [K]. withdlew();
     bleck;
    (ose 5: Systemow), println ("Finter the account number");
             act no = Ss. next ();
              for (int K= D; K<j; K++)
                if (autro. equels ((-acit(K). get Account No ()))
                    C-act (K). Display ();
             for (int K=0; KKi; K++)
               if (action equal (s-act[K), get Account No (1))
                 S-acct [x]. Diplay (1)
            bleck;
  (ose 6: System, out println ("Enter the account number: ");
           acidno= ss. next();
            for (int K=0; K<j; K++)
              if (acetus. equals ((_acet [F]. get Account No[]))
                 Systems. out. Println ("This is a current account. In This account
                 does not provide interest ");
          for (int K=0; K<1; K++)
               if ( acc 4 no. equels (s_acct [x].get Account No()))
S-acut [x]. counspound_iterus+ ();
3 3241355413 fort;
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Enter the action to be performed: 1: Create a Savings Account 2: Create a Current Account 3: Deposite 4: Withdraw 5:Display Balance 6: Check Compound Interest Enter your choice: 1 Enter the Deals of the new account: Name: Raju Ideal Account number: 12345 Enter the first Deposite Value: 2000 Thank you for creating an Account. Welcome to the bank. Enter the action to be performed: 1: Create a Savings Account 2: Create a Current Account 3: Deposite 4: Withdraw 5:Display Balance 6: Check Compound Interest Enter your choice: 2 Enter the Deals of the new account: Name: Babu Ideal Account number: 67890 Enter the first Deposite Value(above 5000): 6000 Thank you for creating an Account. You will shortly receive your Cheque Book.

Welcome to the bank.

Welcome to the bank. Enter the action to be performed: 1: Create a Savings Account 2: Create a Current Account 3: Deposite 4: Withdraw 5:Display Balance 6: Check Compound Interest Enter your choice: 4 Enter the account number: 67890 This Account is a Current Account. Warning: A minimum of 5000 balance must be maintained If failed, a penalty of Rs.100 will be imposed. Enter the Amount to be withdrawn: 2000 The balance is less than 5000 a penalty of Rs.100 is imposed. Welcome to the bank. Enter the action to be performed: 1: Create a Savings Account 2: Create a Current Account 3: Deposite 4: Withdraw 5:Display Balance 6: Check Compound Interest Enter your choice: 5 Enter the account number: 12345 The Account Details are given as follows: Name: Raju Account Number: 12345 Account Type: Savings Account

Balance: 2000.0