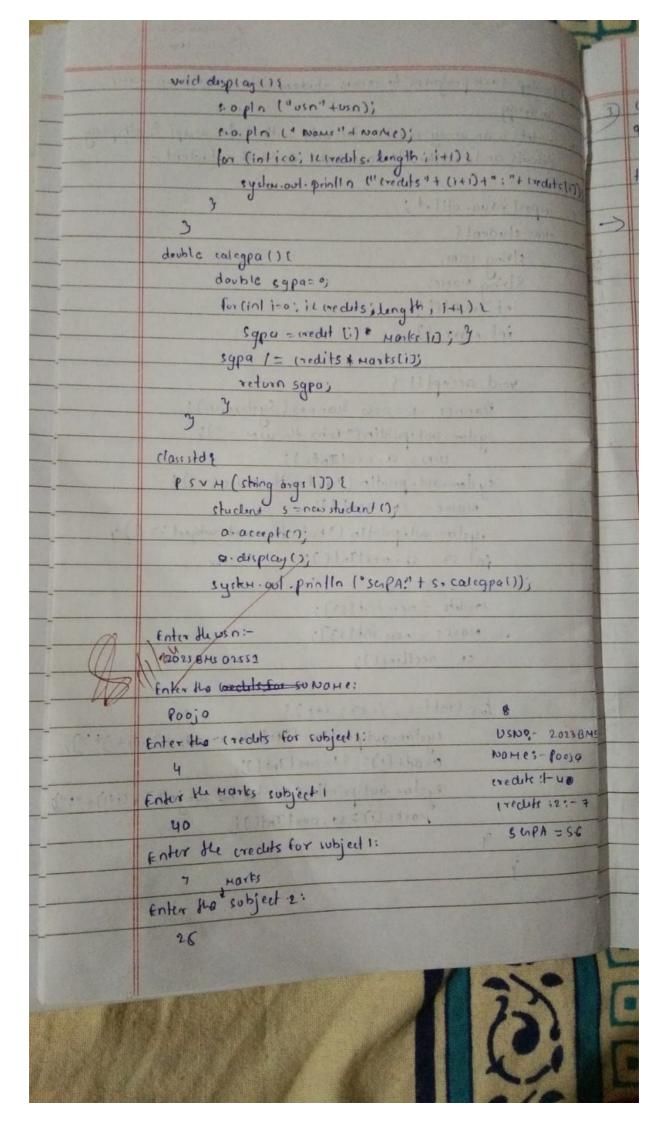
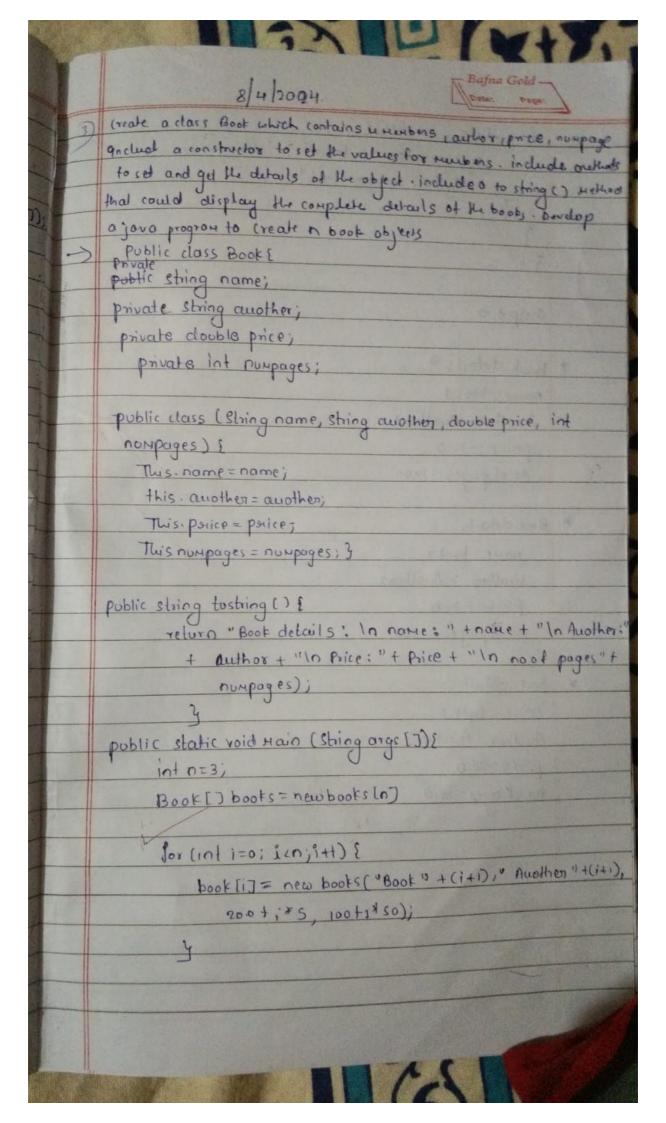


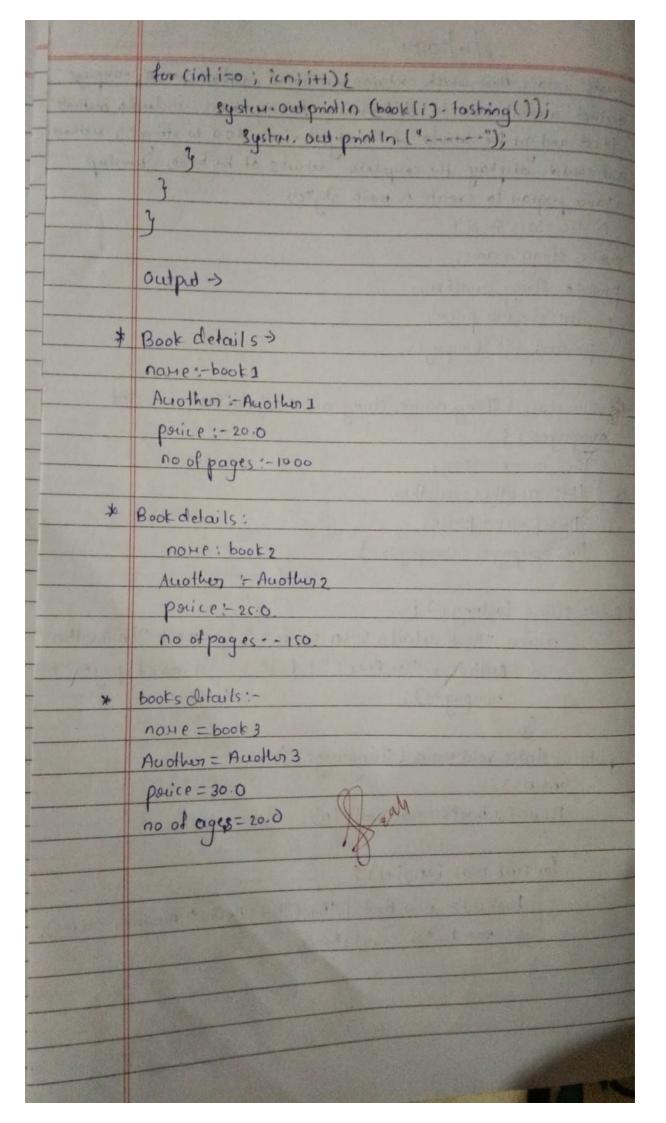
	burn the 1 West Cold Contracting to the
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THE REAL PROPERTY.	the way the heavy the little of
	it has areal and equal roots
	the roots are -1.0 and -10
	DO SALES YOU HAVE AND DESCRIPTION OF THE PARTY OF THE PAR
	toter the cofficients of quadratic equation
	1
	4
	It has no real roots
	Enter the cofficients of quadratic equation
	,
	4 Yar birais and birth a strong for the last
	1
	Il is real & distinct roots
	the roots are -0.2679 and -3730508
	- L. Don Day Dars 18") and on 1/2 dates
	(c 20) ((c) true with right)
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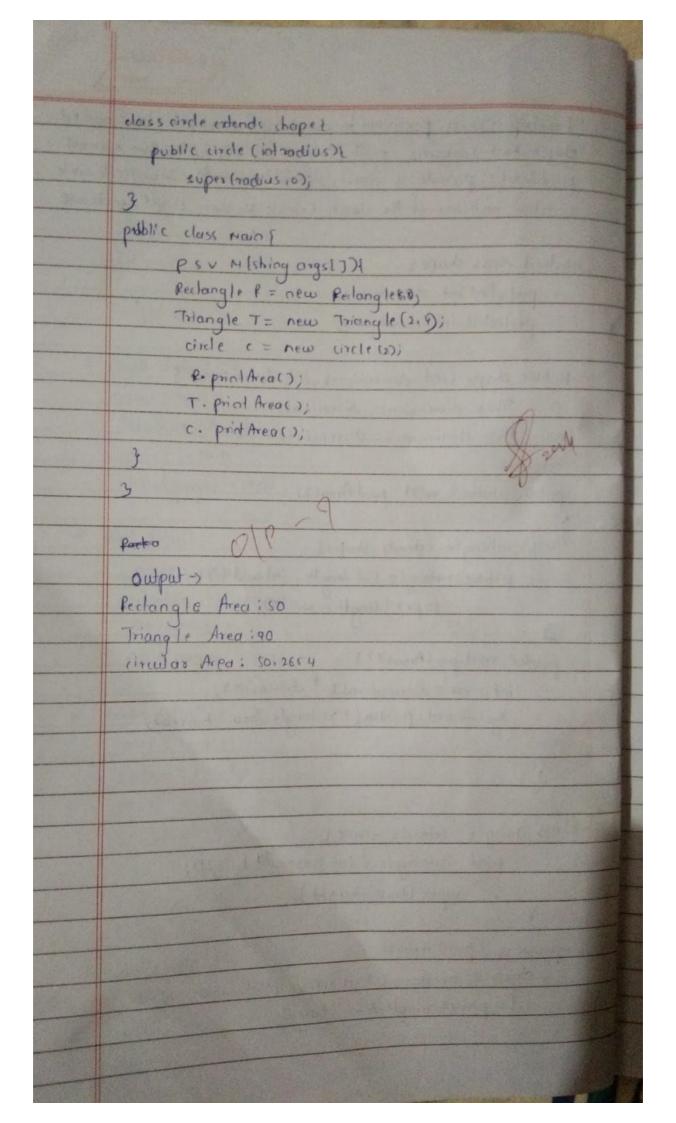
Develop Tava program to create student with mubers usniname, credit & an array marks, include methods to accept & display delails and a method to calculate sup + of a student.) import sava. util . *; class student { string usn', String Name; gregos strich int credital] land, who was a sould at int morts () void accept () { Scanner s1 = new Scanner (System.in); system. Out println (" Enter the usn: = "); USN = St. next [] (); system. out. println (" Enter the name := "); Name = sz. next(); gystem. out. printin (" Enter the no of subject := "); int s3 = s1 . next Int (); (redits = new int[s3]; marks = new int[s3]; sz nextline(); the makes but thrown and when for (intico; issa; itt) { system. out.pnnlla ("Enterthe credits: "+ (i+1)+"); meditali)= S2. nextInt(); system out printle ("Enter the subject " + (i+1) + ":"); Marke [1] = so. next Int(); or initial or what

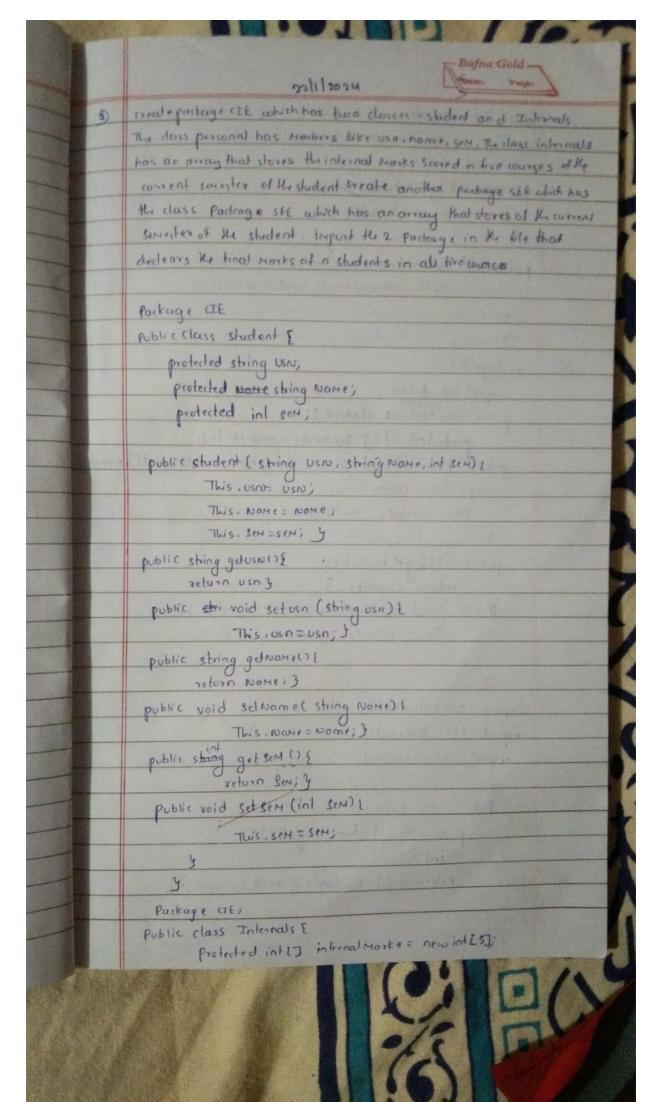




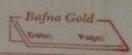


Develop a Java program to create an abstract class named shape that contains 2 integers & an empty methor named print Area (). provide 3 classes named rectangle, Triangle & circle such that each one of the classes Extends the class shope each one abstract class shape & protected int dimensions; protected int dimensions; Public shape (int dimensions, int dimensions) & This, dimension = dimesions; this . dimension 2 = dimension ? public abstract void print Areas; class reclangle extends shap+ { public reclangle (int length, int width) & super (length, width); public void print Arear () { intorea = dimensioned 2 * dimension 2; System.out. Printin (4 rectangle treo; + orea); class Tringle extends shape & print Islangle (in base, int height? super (base heigh); public void print Areal)s double area = 0.5 * dimension * dimensionz S.O. pla (Tringle Area " + on ea);



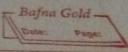


```
public Internals (intl) internal Horts)
              This internal Morts = internal Morte &
 public intliget Internal Hoits ()4
           return internal Horks;
 public void setInternal Harks (inter internal Norts) &
             This. Interned Horks = internal Marks;
  package SEF;
    import (IE. student;
   public class fatereds student &
        protected int [] see Norks = new int [s];
    public External Csting usn, string nave, intset, int I) scenal
      super (usn, name, sen);
        This . seemanks = seeManks)
    public int [] get Hanks () {
          return seemanks; ]
    Bublic void set seeMarks [ intl ] seeMarks ){
           This . SeeMarks = SeeMarks;
import cIE. Hudent;
import (If. Internals)
  impost SEE. External)
    public class main file &
         P s VM (string args[]) {
int n=s;
           External () students = new External(n);
```

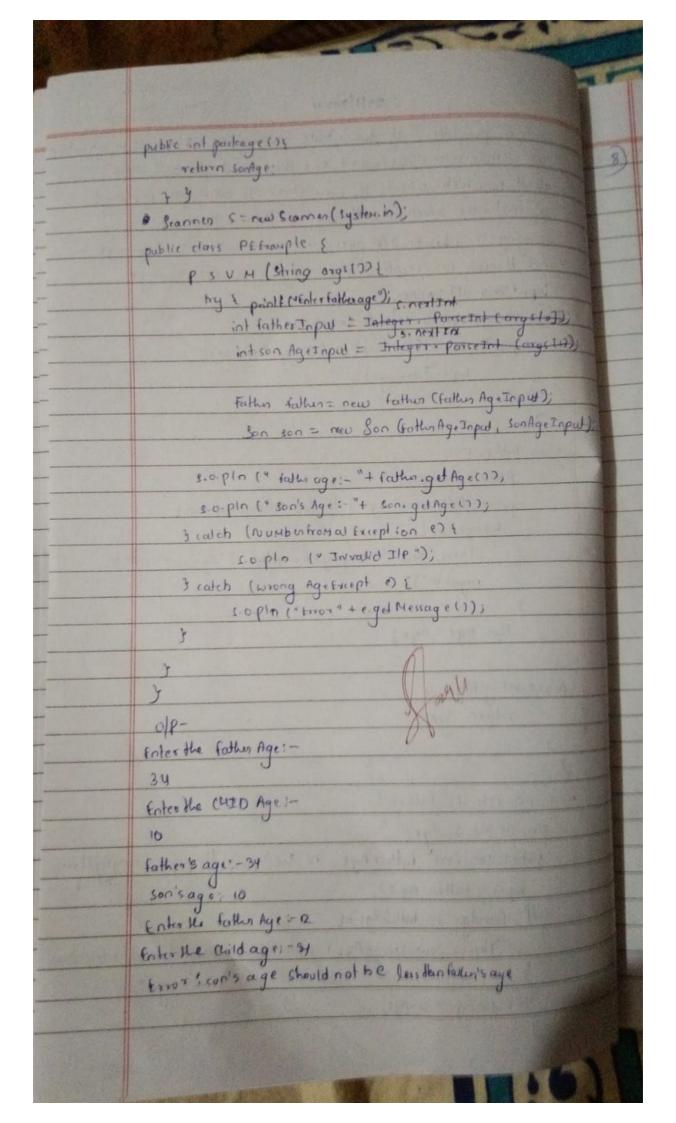


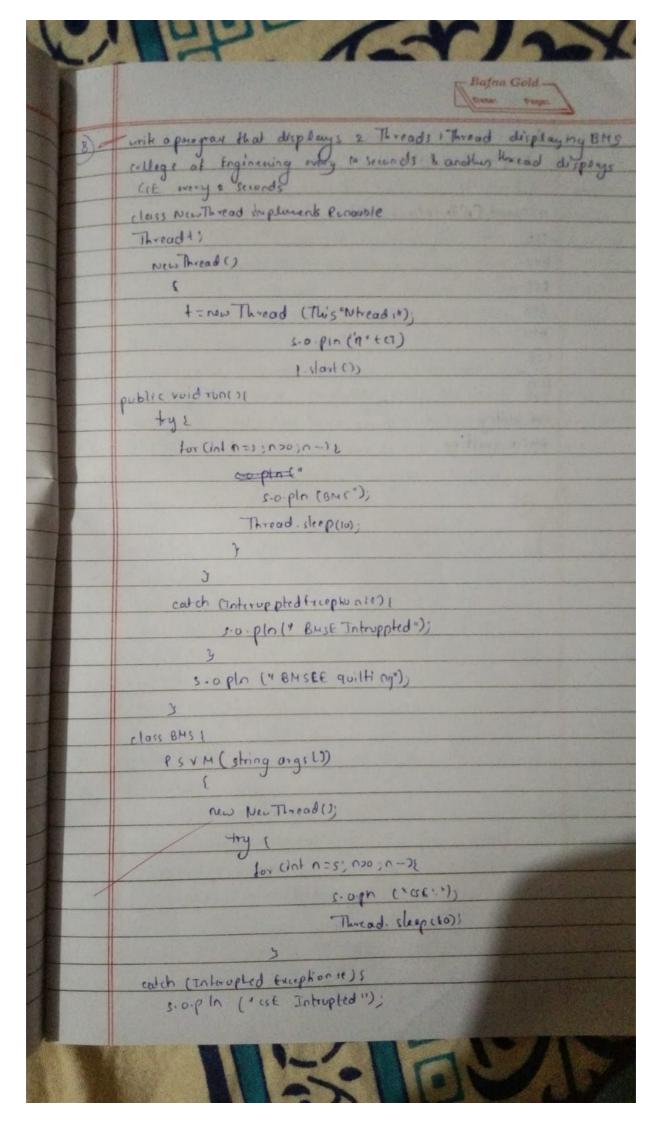
```
dor cinti=0; icn; i+1) {
      in 17 internal Marles = 1 so+1, s2+1, ss+1, 48+1, co+13;
      in [] seemonks. soti, soti, soti, soti)
student (i) = new External ("usn" +i, "student" +i, 3,
    seemonks?;
dor (inli=0; icn; i++){
     (.o.pln ("student" + students (i) getName());
     s.o.pln ("USN: "+ students (i) getusnos);
     3.0. PIN ("Sen" + students (i). galsen());
 s.o.pin (" Internal Marks : ");
    for cirt j=0; jes; j+1) 2
           5.0 pln (*100158 "+ (i+) + ";" + students [i].
             get Internal Morks () [i]);
 s.o.pla (4 SEE Marks)
      for cint j=0; j+s; j+1) {
          s.o.pln ("cousse"+ (j+1) +": " + students Fi).
         gel BecMarks (7 (1))
   5.0.pln ();
OIP -> Enter the no of student :- 1
     student :- Odails for studen 1:
      USN: USNOOT
      NOME : ABC
       SUN : 3
    Internal Mortes:
       1001611:75
       course, 80
```

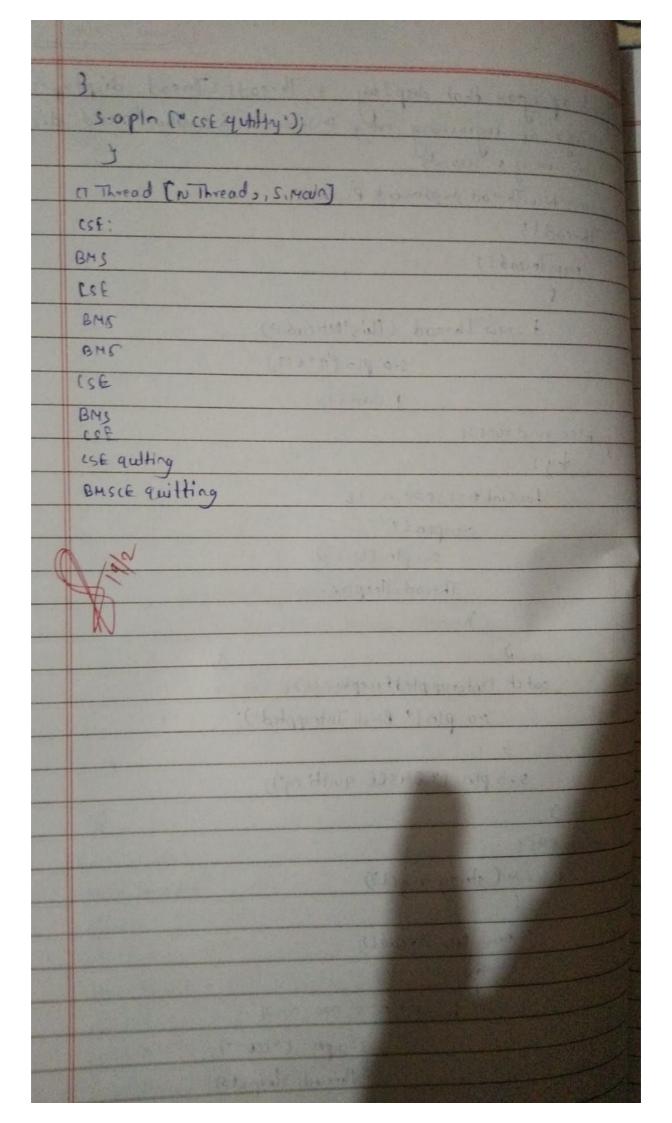
wurse 3:75 course 4: 80 (000585:90 External Morks 1002511880 (burse 2185 (ourse 3:80 touise 4:88 100 458 5: 90 Total Morks , 820 Percentage: 821 (gpa; 8.2



write a program that demonstrate handing of exceptions in inheritance
Tree create base classicalled so father and derived class
called somehich extends the base class. In father days implement
a constructor which take the age & throws the emphon
wrong Age () when he IP age co. In cases both father & sonage
and throws on exception of sons age is >= fathers age,
import Java. Util scannes;
class wrong Exception extends Exception &
public wrong Age exception (shing Mescage) {
super (Message);
3 Maria Mari
3
class father {
private intage;
public father (int age) throws wrongstreptions
it (age co) ¿
Throw new wrong Age Exception ("Age is connit be
negahve*);
3 Commence of the second secon
This age = age;
public int getAge (7)
return Age;
y I want of set of a
)
elaw son extends father 2
private int sounge;
public son (int father Age, int sonAge) throws wrong Ageticep
super (father Age);
if (sonAge) = fatherAge) [
They are I months from the cold and deald be less than
Throw new wrong Age Freephon (" son's age should be less than Yather age");
This sonfige = sonfige)

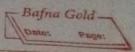






sant develop a Java program to create a class Bant that maintains tinds of account for its customer's one called sound amonts othe current amount. The saving account provides compound inheset and with drawal facilities but no cheque book facility. The words amount provides compound interest and withdrawal facilities but no thegu. duque book facility but no interest current account holders should also maintain a minimum balance and if the balance tall below this Level, a service charge is imposed. Create a class Account that stores internate, account number and type of account. From Has drive the classes. cur - acet and sur act to Make that More specific to that requirments. Include the recessary methods in order to achieve the following task. a) accept deposit from customer & update the balance 6) display the balance O compute and deposite inhert permit with drowal & update the balance. import Java OHI scanner; class Account & private string customer None; private int account NUMBAS private string account Type; protected double balance; public Account (string Name, in author string type, double inhal Balace) { LEUSTOMET NOUC TRANE; augunt Number = auno; accountType = type; balance : initial Balance; public void deposit Cdouble amount) E balance += amount;

system out printer (Deposte successfull; bupdated balances, balances; public void display Balancers system out println ("Account Balance: "+ Balance); public void compute Interest 17 { Public void withdraw (double amount) { if [balance >= amount) } balance -= anoual; system out printle ("withdroval successful update balances" balance); } else system out prollo ("Insufficient Conds."); } class currentAccount extends Accounts private double minimum Balance; private double service charge; public current Account (stringroup, int aceno, double initial Balanco) (sper (name, accord, "current", initial Balance) MININUMB alance = 100; gervire charge = 10; public void withdraw (double amount) if (balance - amount >= minimum Balance); balance -= amount; system out printin ("with drawal successful update Balant balance 3 else [pystem. act. Println 1 > Insufficent funds - service charges



service charge + "applied"), balance - = service charge; public void compute Intest 172 so.pin ("current account does not com intresel"); class soving Acround extends Acround & private clouble interest Pate; Bulance) [Bulance) [super (none, au No, usovings", intial Balance); interestrateous; public void compute Interest() [double intest = balance* interestede; balance += interests S. o.pin L'Interest computed & deposite apparted balance + balance); public class Bant & public static void main (String angs 17) Scanner s1 = new scanner (system, in); system out println ("Enter your name:"); sking name = scanner nextlines System-out-println (" Enter your amount number "); int account wunder = Scanner next Int (); system out println ("Interinitial balance for suring aucon!"); double sowing Inited Galance - Lanner . next Double Ct. Scring Account Soving Account = new soving Account Lower accommonder, sowing Initial Balance);

system out printle (" Entre intical balance for current around, double current Initial Balances Scanner. next Doubles wired Account correct Account = new correct Account (none allount number, current Initial Balance); soving Account - display Balance(); I usrent Account. display Balances; s.o.pin ("Enter diposite around for soving amount") double clapsite Amount = scanner. next bouble(); Soving Account deposts (deposite Amount); 8.0. Pla [" Interwithdraval amount for corred occounts? double withdrowal Amount = Scarner . next publich, current Account . withdraw (withdrawal AMOUNT); Soving Account. displayBalance () wront Account display Balance (); Scanner . closel); -s tugtuo Inter your Name: John Enter your account Number: 123456 Enter initial balance for soving account : sooo Enter initial balance for conent ecount . 3000 Account Balance: 50000 Accord Balant F. 3000 D Enler deposite arount for saving account : 2000 Deposite encressfull- update balance: 7000.0 Enter withdrawal amount for correct account, 4000 withdrawal successfull update balane: 1050.0 Account Balance: 1000 Account Balance: - 10000

```
Add component to the have
          add (nouslabel);
         add (nunfield)
        add (numa leibel);
       add (num efield);
         and (resultabel);
        odd (resultiedd);
      add (divide Button);
         sel visible (true);
          J. Special theorem and an analytic state of the state of 
public void culianperformed (Action Event e) [
                           if (e-getsource) = = devideBulton) 12
                                try & reduce there college there
                                   int num = integer pareint (numbed + getText()),
                                            int num: = integer pomseInt (nonlifield, getTexto)
                                 if (nums == 0) {
         showHessageDialog ("carnot divide by 2 no"))
                  int result = nom! none;
                   result field. set Text (string value of (result); )
                  catch (Number for mat Exception ex) [
                                                                 showtersage Pailog ( " please enter valid)
                                           integer for NUMI and NUM2 . 1)
                    (or bladed or bladed or blade to be 
 private vaid shownessage Dialog (string Message)!

Dailog dialog = new Dailog (This, intrent", true);
                            darlog settize (400, 400)
                          dailog sellayout (new flow layout (1);
                           label label = new label (Mosage)
                  dalog add (label)
                Bulton ok Button = new Button ( Yok ");
                 Or Botton add Action Listenesses ( new Action Listenes ) ) {
```

