Lab pragram 5 Develop a java program te create a class Bank - that maintains two kinds of accounts for customers Savings and checking current account. The sawings acc provides compound interest and withdrawa facilities but no cheque book facilities. The current account precouides cheque boach factity but no interest, current account harder should maintain a minimum balance and its the balance balls below this buel, a sercurce charge is imposed Create a class Account that stores custancer name, acc nce, acc type. brown this develue the classes our acet and savacet tee make thun more crecific tee theor requirements. Include the necessary methods in corder to acheme a) Accept the deposit brown austamere and update the bodance. 6) desplay the balance c) Complete and depart intercest d) Pourrit withdrawal and update balance Impart gava . util -scanner; java lang Math; trogant Aldelle Account Stowing name, acc-type;

double bal, dep; Canner SS = new Scanner (Systemen); System conterent lin ("Enter your name, account number, account type; - ");

name = Ss. nont (); acc_ma = Ss. nentInt []; Spal=SS. nent Double (); void disp() { class A bratio toso to Rocaust System out partly ("Name: "+ name); System-out-pountly ("Account Number:"+ acc-no); System.out. printler ("Account type:" + acc-type) System out print les ("Coverent balance: "+ bal); void depaset () System.out.printler ("Enter the amount the be deposited:"); dep=ss.nertDouble(); System-out-println("Balance amount="+bal);

Soulean acc (String acc acc-type)
Soulings "(Savings") return time; else if (acc type = = "Current") return false; return traveue; class Cur-acct enterds Account 2 but penal () L'adauble mon, pen j System-out-println ("Enter minimum balance 1
penalty amount, if not followed"); min = ss. nent Double (); pan = ss. nent Double (); of (bal < min) 2 ball - = pen jours System-out printlin ("Penalty in sufficient funds"); impassed for having

void withdrawal ()) Initional Him Live ¿ double sun; System out printly ("Enter amount to be withdrawn: "); ant= ss. neut Double (); int a=penal (1) 4 (a==1) E 16 (bal >=ant) tous on Parther Account { bal -= and; Water Maria Joseph House System. out-printeler ("Account balance after get transmis sit bal); 31th of the state of superet the System out printly ("the amount and be withdrawn"); Closs Sav_acct ontends Account 2 void cale_interest() Esystem. out. println/Enter time q'interest"); doeuble t=ss-nextDouble(); double 21 = SS-nerot Double (); boul of moth-paw ((1+ 51)/100), +) Scanned with CamScanner

void withdrawal () 2 double ant; System out println l'Enter amount te be withdraw and = sc. nent lauble ();
ib (bal > = ant) And them ?: { bal = ant j System out-printler l'Account. balance wethdrawal is: "+bal); 3 electe sounded truess. A" I relative of trasles Systemout partler (" In The amount cant be with doraum"); System out printly ('tre amount and be ? dors Bank public static void main (strung args []) two Account Scourrer Se=new Scourrer (System in), Account al=new Account () M (al-acc(a)) acc-type) = = tome) () Idduog book 22 & + ida () slowed 138 m. = 12 1001 For +1 how water & Led

sod-acct 151 = new - tooto Sav-acct (); S1. name = alabal; and theman A was solv? Switch (ch) Somon A REMOVER ! tous A house Case 1:51. deposit (); hreak; Cose 3: S1. wethorawal (); break; Cours Conto FOLING Core 4: SI. desp(); break; (oze 5: Brut (o); Break; nother) default: System.out. preintlin ("I trivalid see input"); DE MONTH COME (dee Account runder, 666 tendin mini Cur_acct (1 = new Eur_acct(); C1. name = a1. name ; c1. acc_no= a1. acc_no; e1-acctype=a1-acctype; c1-bal=a1-bal System. and print In l'Infenter your chaice: In 1. Deposit / n. 2. Penalty theck In 3 withdown In A Duplay In 5 Enit! 2 core 1: c1. deport (); break; core 2: (1. penal(); boceat; case 3: c1. withdrawal (); break; Core 5. ent 6); break; defautt: System.out-printle ("Invalid"); Scanned with CamScanner

Output: ladate swan Enter your Account type: (10 1-1 9 Sowings Account 2) Current Account () trement (). Enter constancer name i speared () deap 15 . Min Enter account number dosel (6) ting 200 666 Would . System out governt by Enter balance contourt 66000 custamer Nane: C Account number: 666 Enter isterest Finter na of lines interest applied of time periced Frotal amount: - 68034.27200021 Balance anount w/o interest is 603000 Avoilable balance after applating 68054.272 to die die porder de la benearde : speed (a tree ? bolevne District - bus notes ? Hurstel savacEnter balance amount 60000 Customer Name:rrr Your account number:5555 Your Account Balance: 60000.0 Press 1 to deposit Enter amount to be deposited 500 curac Enter rate of interest Enter number of times interest applied per time period Enter number of time periods Interest amount=68054.27200000001 stem.Balance amount without interest is60500.0 Available balance after updating is68054.27200000001 Press 1 to withdraw ammount Scanned with CamScanner

oid m

rrr

5555

Enter your account type:

tln("Cheque Facility not available

Enter rrr's account number

canne 1. Savings account

Current account

Enter customer name