Lab 5 Develop a Java Perogeram to create a class Bark that maintains two pinds of account to its customers, one called sowings account (peronds compound interest but no cleck book) and other called current account (has deal book and minimum balance seguishenet which is not met, a service tronge is imposed). Create class Account which stores have number and type. Erron this desire two classes & each having specific requirements. Include a) Ruept deposit & update balance b) pisplay balance c) Compute I deposit interest a) bearit withdrawd e) here minim book balance and impore peralty import java. util. \* ) import gava, long Mathy abstract class Back & void withdraw (double ant) abstract does deposit ( Souble and) astract void diplay (); abstract void neudip () class Account extends Bank { String have int uce - run Storing typs

double bal; storing mene = " Account (Stang none, int accomm, Storing type, double bal, Iting meru) { this name = name; this occ num = acc - num; this type = type / this - bal = bal; this - men = meni; public void withdraw (double ont) {

if (ant > bal) { System out printh (" hlithdraw declined!) bol = ant /
System.out.peintly ("Updated bal is:"

+ bol ) / public void deposit (double ant) {

bal + = ant / System-out. printly ("Updated bal is: "+
ant); public void display () {

System out println ("Accord : "+ Accord); System . out . perinth ("Arc. name = " + name); System out printly ("Au bal = " + bal);

System out printly ("Au bal = " + bal); public (void merudip () { meru = " ---- MENU---- 'n 1. begant \n 2. Withdraw \n 3. priplay dos Savigo extends Account & double interest Sovings (String have, int our num, String to Savings (String have, double interior) double but , Storing mens, double interest super (none, ou nen, type, but haven) this interest interest public double interest (int time) { double comp nomp = bal + Math bour ((bal\*

(I+ (interest /100))), time) getwon comp Z public void herudisp () { Super : menudesp() neru + = " \n 4. Compute Interest n 5. Exit 1/ class Current extends Amount { fouble mibal = 10000' int overdraftlinit = -100' Current ( String have, int occ. min String type, double bol, String men ) \$ { super ( some, are nin, type, but menu); public word merulisp () { men + = " top / 4. Cheque book n 5. Exit"

public void withdraw (double ant) { System. out printle ("hlithdrow bal - = ant; if (bal & mirbal) { bal = 0.1 \* bal; System out pristly ("Balance is lover than minimum balance. 01/ service sharge imposed ! New baland is: " + bal); System . out printly ("Updated balone is: " + bol) public void herbook (double out) { if ( ant <= bal & ( bal - ant ) 7 = soveralouft limit) { bal == ant / Systen, out paintel (" hegue issued concentrally . Cornert balance: + bal) else {
System out paintle ("Impfinist funds")
}

public static void main (storing angs ()) { class bank & Scarrers = new Scarrer (System in) Stang home! int our num! Stong Type / = 0 / coule interest ! it croise; int time / double money! System out paintle ("Enter Customer have:") hame = S. next(); System out printh (" Erta Occount number:") au-hun= s. hext Int () / System. out printle ("---- Acoust Cyp-.. In I savings Account for 2. Coverent Account In Prease select account: ") type = S. next() if (type equals ("soungs")) { System out paintly ("Enter interest around:") interest " S. pert Double ( ) ) Savings acces = new Surings (hore, are-hum, type, bal, meru, interest) aug. memaisp () Tysten out printh (our peru) System out pointly ("Exter Noise") doice = S. next Int () Switch (choice) { System out parish ( 500) ant to be deposited

YOUVA money = s. hert Double (). are deposit (noney) System out prith ("Externat to be withdrawn: "); money = 1. rest Double(); account down (money); bereak; Case 3: accs. display (); break; System. out printly ("Exter time : 1); time = s. pest Zet () money = accs. interest (time) System out printly ("Compound interest is " + money ); break; break , I while ( cloice 1 = 5); else it (type equals (" (werent ")) { (whent aus = new Current ( nors, type, but, merce) ous mendip (); System out printly (aus. new) Lysten out points ("Extre close ") choice = s. rest Int () Switch ( croise) {

System out paintly ("Este arout to be deposited : money = s. rout Double (). aus deposit (money); break ; core 2: System out printly ("Enty amount to be withdrawn: ") money = S. next bowle(); aus withdraw (money); baral/ aus. display () real? System. out. printly ("Exter amount tof degre: ") money = S. rest Ist (); aus cherbrook (money); beever, System out pointh ("herong type Inice!")

Output: Exter sustances have : San Enter are . number : 1 --- Acourt Type --1. Sovings account 2. Current account flear select account --- MENU --. Deporit 2 - Withdown 3. Display 4 Compute Interest 5. Exit Exter Noise: 1 Enter ant . 1000.0 Updated bal: 1000 Estes Noise: 2 Enter ant: 300 Updated bol: 700.0 Enter croice: 3 Are no : I Exc. hang: San Fre type savings Au bal : 100 Enter choice: 4 Entre time: 3 Trapound Interest. Lates cloine: 5

(-2 Extre customer have: Som Erter vice no : 2 --- Account type ---1. Saviga Account 2. Curant Account Breast select accounts : Current --- MENU ---. beposit 2. mitraran 3. bisplay 4. Cheque book 5. Exit Enter Noise: 1000 Enter amount: 10000 updaled bal: 10000 Entir Choice: 2 Exter amount: 1000 Bolarais lower than minimum 10-1. seemie charge inposed! Opdated balance: 8100 Enter croice: 69 Ele ant: 100 Cheque severesfully assued updated bol: 8000 Exter cloice: 5