30/10/24

Develop a Java program to create a class Bank that maintains two hinds of accounts for its customers, one savings and one current. The savings account provides compaind interest and withdrawal ficilities but no cheque bode facility. The current account holders should also maintain a minimum balance and if the balance & falls below this level, one charge is levied. Create a class Account that stores customer name, account number and type of account. From this class derive current account and savings account to make them more specific to their requirements. Include necessary methods to active the following:

(i) Accept deposit from customer to update balance.

(ii) Display balance

(iii) Compute and deposit interest

(in Permit withdrawal and update balance

(v) Check for minimum balance, by impose penalty if necessary

Source Code import java whil , \$; class Account &

> protected String Cust Name; protected int kno;

protected double balance;

public Account Cotting Cust Name, int AccNo, double balance) {

this . Cust Name = Cust Name;

this · ACCNO = 4CCNO;

this . balance = balance; &

public void deposit (double & amount) ?

if (amount >0) [

& balance + = amount;

System. out. println(" Deposited: " + amount); 3

System out-println ("Invalid Deposit Amount");

public void diplay Balance () {

System. out. println ("Balance: " + balance); 3 alance - = amount; few out poutle (" withdrawn ". class 8 av Acct extends Account & private double interest Rate; public Sav Acct Cstring ConsomerName, int aceno, double Balance, double interest Rate) { super (austonier Name, accino, Balance); this interest Rate = that interest Rate; public void Comp Enterest () { double interest = balance & (that interest Route 100); balance + = Enterest; wien by sold so System out println (" Suterest Added "+ suterest); 3 public void withdraw (double amount) & if (amount (= balance) E balance - = amount; System out println ("Withdrawn: "+ amount); ? System out. println ("Ensufficient Balance for withdrawal? Sev Acc. deposit (2000) Curracet extends Account? private double minimum Balance. private double service charge; public Curr Acct (String Cushmer Name, int accno, double Balance, double minimum Balance, double service dange) { Super (Customer Nave, accno, Balance); this minimum Balance = minimum Balance. this service charge = service charge; }

int ch = sc. next ant (); Switch (ch) Comments case 1: System out printly ("Savings Account selected"); Sav Acc. deposit (7000); San Ace. Comp Enterest (); San Acc. withdraw (Olge (500); Sav Acc. display Bollance ();

balance - = amount;

break; abstirves aduate storing case 2: System-out. println ("Current Account Selected"); Currace deposit (500); Curr Ace withdraw (cody (200); Curr Accordisplay Balance ();

breaky was will

Ine Current Account : ");

