(A) Develop a Java program to create a class Bank that maintains two kinds of accounts for its customers, one called Savings account, and the other current account. The savings account provides compound interest and withdrawal facilities but no cheque book facilities. The current account provides cheque book facility but no interest. Current account holders Should also maintain a minimum balance and if the balance falls below this level, a service charge is imposed. Greate a class account that stores customer name, account number and type of account. From this, derive classes curacit and sav-acct to make them more specific to their requirements. Include the necessary methods in order to achieve the following tasks. i) Accept diposit from customer and update the Iralance. 11) Display the balance

iii) Compute and Deposit Interest

iv) Permit withdrawal and update the balance

V) Check for the minimum balance, impose penalty if necessary and update the balance.

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	to year year
import java. util. Scanner;	era (s.
Import java. uni. Scannoi,	, "
class Account of	`
motical String customer Name;	
protected int account Number;	i in the
protected double balance;	(distribute
public Account (String austoniuName,	int account Number,
double blalance) l'	
this Customer Name = customer	
this account Number = account N	
flir. balance = balance;	
3	
· Marie Land	soft for the
public void diposit (double amount) (1
if (amount >0) {	
balance + amount;	() ·
System. out. print In ("Depart	sited: + amount),
y else e	
System-out-point In ("Invalid	d Deposit Amount ");
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public void display Balance () {	
public void display Balance () { System. out. println ("Balance: "	t balance);
3	
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· , the wine was	
class Law Acut extends Account &	
private double interstiRate;	(, -1 , •)
public Sav Acet (String customar Na	my int acount Number
double Balance, double interest &	ate) l
Super Coustomir Name, acco	unt Number, balance);
this interest Rate = wherest Ra	ste;
The second of th	, vi (3
	1
public void comp Dep Interest () (
double interest = balance * (int	erestRate / (00);
balance + = interest;	· # \$ (1)
System · out · printh ("Interest /	(ddid: "+ integrust);
the second of the second of the second of	
	4 / 5 /
public void withdraw (double amou	nt) of
y (amount <= balance) {	i
balance - = amount;	4
System out printla ("Wi	thobracon: "+ amount)

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3 elsel	
System out.	erintha ("Insufficient Balance drawal");
La With	drawal");
1	
3	
4	
A CONTRACTOR OF THE STATE OF TH	41 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
class Pur Acct entends Account &	,
private double minimum Balance	
private double serviceCharge;	
public auracet (String customer	Name, int account Number,
double balance, double m	inimum Balance, double
Service Charge) &	and their field aller.
	account Number, balance);
this. minimum Bala	nce = minimum Balance;
this service Charge:	
3	0
public void withdraw (double	amount) d
if lamount 2= balance	1
balance - = amo	
	("Withdrawn: "+ amount)
V Committee of the comm	

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	j (balance & minimum Balance) &
· · · · · · · · · · · · · · · · · · ·	balance = service Charge;
	lystem out printh ("Service
	Charge imposed: "f serviceCharge)
y	
3 else l	A
S.	ystem. out. print he ("Insufficient Balance for Withdrawal");
	Withdrawal")
3	to the second of the second of the second of
3	the state of the s
4	
and and there is the	in a super the superior of the
puldic class Bank !	Control of the first that the second of the
public Static Vo	no Sc= new Scanner (System. in);
Lane Scane	no Sc= new Scanner (System. ia);
· · · · · · · · · · · · · · · · · · ·	a cita de la companya
Lav Acc	15 av Acc = new Sav Acct ("Aary an", 12345,
	1000,5);
aurhect	curtice: new Curtect ("Jony", 67890, 2000, 500, 500);
	5.00 (50)
	1. Table 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Lysten out	Account \n2: Current Account);
Savings	Account \n2: Coverent Account ");

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unt choice = sc. nent Int ();	8
switch (choice) {	
case 1:	
System. out-print	In 1" Savings Account
Selected ");	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
sav Acc. deposit 15	00);
Saw Acc. Comp Dep.	
sav Acc. withdraw	
Saw Acc. display Ball	
loriak;	1 × 3×
Lase 2:	tari tari
System. out. printh	l" Current Account
Selected ");	
cur Acc. deposit 150	
curkec withdraw (1	
aur Acc. diplay Balar	
lerak;	,
clyault:	4
System. out-printh ("	Amolid (horce ");
MANN 10 (lots 1).	
3 served sc. close ();	

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Output	
1. Sourings Account	
1. Sowings Account 2. Current Account	
1	
Sorvings Account Selected	1 a. f 3 l.
Deposited: 500.0	
Interest added: 75.0	
Withdrawn: 300.0	
Balany: 1275.0	
- Control of the Cont	dr. C.
Choose Account Jupe:	+ j. ; ·
1. Savings Account	
2. Averest Account	1000
2 Language Language	
Coverent Account Selected	
Deposited: 5000	a di tan
Withdrawn: 1800.0	
Balance: 7000	
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