2/12/22 Lab Perogram 5: Develop a Java Brogram to create a class Bank that maintains two kinds of account for its customers, one Called sarrings account and the other current account. The savings account powerds compound interst and withdrawl facilities but no cheque book facility. The current account provides cheque book facility but no intert Current account holders should also maintain a minimum balance and if the balance falls below this level, a Service charge should be is impored. Create a class Account that stores customer name, account number and type of account From this desire the classes Cus-act and Sav-act to make them more Specific to their requirement. Include the necessary methods in order to achieve the following tasks: a) Accept deposit from automer and up date balance b) Display the balance c) compute and deporit intrust d) Permit withdrawal and update the balance Check for the minimum balance, infore penalty if necessary and update the balance Import java, util. Scamer; abstract class Account & String name = new String(); Stringchords double bal, dep, with, nin = 500, tran, (i, v, n, t, p, 9) abstract void type (chars); Scarner ss : new Scarner (System.in); & Syskin. out. printly ("Enter your account number)

	Date Page
	accno=ss. next int();
	System. out. frist hu ("Enter your Balance:"); balt = 55. neut Double (1:
	Vaid put ()
	Void put () § system out println(" your balance is now: "+bul) 3
	class (ur-acit entends Accord
1	Void type (class)
	So it (character on)
64.	This is the compare (S, (')) system out print for ("
	So if (character compare (s, '(')) system out printly (" This is your current account"); doubte continued
	dont de cap deposit ()
	System out lariet (1:0)
	to your account: ");
	dep = SS next Double(); bal = bal + dep;
	bal = bal + dep
	return bal;
	}
	double estrarefor()
-	3 segskin out prixtly ("Enter the amount to be
_	transfered. ");
	Kan = ss. nent Double ();
	(bal-tran) < min)
	E System out printhol" This transaction will cost a
	penalty of Rosso as balence will go below minimum. In
	Do you want to go ahead with the transaction you
	$N^{(1)}$ (hor $u = 55$. next();
	if (choice equals Ignore (are ("y")) { bal = bul -trans-50;}
	else (sys km. out. printly (" (ancelling transaction");
	,

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else bal = bal - tran; return bal; Sax-acct entends Account Void type (cherrs) System out frintln ("This is your Savings Account"). 3 double deporte System out printly ("Into the arrant transfered to going account: "); dep = SI. next Double(); - bal = bal + dep,

Seturn bal; return bal; double withdrawl System. out printly "Enter the amount to be Voithdrawed "); with= 55 new Doube(); if ((bal-with)> min) { bal = bal-with;} else (System. out printly ("Insefficent baba") Freturn bal; 3 dont compounditures () & System. out. printly ("Enter inter vate:"); v = 15. nget Double (); Systm. out. printly ("Guter no of the interest offled per time firsti); ness nor posses System out printly (! enter the time perid:"); t = 55 nent sut(); p=(1+(r/n)); q=n*+; (i = bal * Math pan(p,q); bal = bal + (i) return bal; 3 (Cars Main Bank & 2 public static voil main (String args[])

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scarrer SS = new scarrer ( system. in);
System out . frietly (" tenter type 1. Cuprent Account 2. Saving account")
    if (ch ==1) { x = 'c';
                         and act (1 = new Cur cact();
                         (1. type(n); (1. set())
                 System out- printer (" Transter to 1. your 2. Differi)
                   1 <= 55. nest Int (); if (1==1) (1. (apacport)).
                   if (k = = 2) (1. (b transfor();
                    (1 furt ();
                  (ch == 2)
                      Savacet SI= new savace(1)
                      51. type(n);
51. set();
                  System. on printlin (" Do you we
                                    1. Pepor t 2. withour
                   1c = SS. new Int ()
                      si. deporit();
                       SI. compondintred();
                      51. put();
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C:\Users\Aditi Suhrut\Documents\Aditi\Java>java MainBank
Enter the type of account to be created
1.Current Account
2. Savings Account
Enter your account number:
Enter your balance:
1000
1000
Do you want to transfer to 1.Your account or a 2.Different account?
Enter the amount to be transfered:
700
This transaction will cost a penalty of Rs.50 as the balance will go below minimun.
Do you want to go ahead with the transaction?Y or N
Your balance is now: 250.0
C:\Users\Aditi Suhrut\Documents\Aditi\Java>java MainBank
Enter the type of account to be created
1.Current Account
2. Savings Account
Enter your account number:
Enter your balance:
1000
1000
Do you want to transfer to 1.Deposit or a 2.Withdraw or get 3.Compound Intrest?
Enter the intrest rate:
Enter number of times intrest applied per time period:
Enter the time period:
Your balance is now: 677000.0
```

```
C:\Users\Aditi Suhrut\Documents\Aditi\Java>java MainBank
Enter the type of account to be created
1.Current Account
2. Savings Account
Enter your account number:
Enter your balance:
1000
1000
Do you want to transfer to 1.Deposit or a 2.Withdraw or get 3.Compound Intrest?
Enter the amount transfered to your account:
20
Your balance is now: 1020.0
```