5	Program 3 import java. util. Scanner; import java. Lourg. Math Class Account of
	String name;
	long acino;
	String autype;
***************************************	}
	class SavAcct extends Accounted double bal, interest vate = 0.04;
	SanAcct (String nam, string long account
	hame = nam;
	alino = alinum;
	bal = start; acctype = "savings";

bal += amount;
}
double withdraw (tamount) {
bal = amount;
return omwunt;
of (bal min-ami
return amount;
}
 double add Interest (double time)
 -bal = bal* (1 + Interest rate / fin
 bal = bal * pow ((1+ interest-rate /4)
 }
}
 class CurpAcct Extends Accorners
double bal, change rate = 0.05; min a
Cir Acct (String nam, long acenum, double
acctype = "current";
bal = start;
Name = yam;
quino = aunum;
Goodean Charles I .
boolean chequeBook = toue;
void deposit (double amount) à
bal += amount;
 durble withdraw (double amount).

bal = bal - (harge-rate + bal;
Y
public class Bank of
 public static void main (string[] and
 Say Act Say = new Say Act ("Agney.
 Beet 1, 3000);
 Ear Act un = new Cur Act ("Agreya
 Scanner reader = new Scanner (System:
System.oul. println ("Opening a Savin
System. out. printly ("Enter your nam
 String name = readernext Line ()
System out printle ("Account number
long acinum = reader.next Long(
Systemoul-printly ("Initial deposit:")
double bottom start = reader, next Dou
San Acct San = new Son Acct (name, qu
System out printly ("Opening a curren
Systemout-print la ("Enter yourn name
name = reader. next Line ();
System out privates ("Account number
 account = reader, next Long();
System. out. printly ("Initial deposit")
gtent = reader, next Double();
 CurAcit cur = new CurAcit (non
· · · · · · · · · · · · · · · · · · ·

	cur deposit (double);
	System out print ln (" Withdrawing 200
	Sourings account ");
	'sav. withdraw (2000);
	System our printly (" Withdrawing "+ (amo
,4	"from current account");
	cur withdraw (amount + 20001);
M	System. out. printly ("How many yea
	passed since depositing in the so
	account 7:);
	double years = reader. next Double
	"sav. add Interest (years)",
•	System. out-printeln ("Amount in savi
	+ sav. bal);
	System out printly ("Amount in cum
	+ cur. bal);
	}
	}
	Algorithm:
	Step 1: Start
	step 2: prompt the user for name of !
	holder, account number and in
	and weate two objects say (
	step 3: Deposit 2000 to savings 9 curum

	Pag
	Sav. withdraw (2000)
	Step 8: say. balance -= 2000
	step 9: withdraw amount + 2000 2001 from
	account by calling cur withdraw
	step 10: Cax. bal -= amount (here amount
	par amedox)
	step 11: charge service charge for gos
	the minimum balance by dec
	charge rate from cur-bal.
	step 12: prompt the user for number (
	since depositing in the sanie
	step 13: Add the compound interest
	by performing bal = bal (1 + interes
	step 14: Display belonces of both all
	step 15: End.
10-	Output: account!
,	Finter your hame:
	Agneya
	Account number:
	1
	Initial deposit:
	3000
	Opening current account!
	Account number:
	2

```
500

Withdrawing 2000 from say

Withdrawing 2501-0 from cuy

Enter no of years since depositing in Say:

Amount in Savings account = 1849.807353

Amount in current account = 949.05

IBM 22 CSO24 Agneya DA
```

```
PS C:\Users\bmsce\Desktop\1BM22CS024\lab 4> cd "c:\Users\bm
 Opening a savings account!
 Enter your name:
 Agneya
 Account number:
 Initial deposit:
 3000
 Opening a current account!
 Account number:
 Initial deposit:
 What amount should be deposited to the Savings acccount?
 What amount should be deposited to the current acccount?
 Withdrawing 2000 from sav
 Withdrawing 2501.0 from cur
 Enter the no. of years since depositing in sav:
 Amount in savings account = 1849.8073536575516
 Amount in current account = 949.05
 1BM22CS024 Agneya D A
PS C:\Users\bmsce\Desktop\1BM22CS024\lab 4>
```