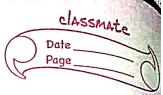
5)	Develop a jave program do create a clay Bank that
	maintains two kinds of grown for its customers, on
100	called sorten account and the other current account
	That savings account privily compound where and
	with drawal facilities but no cheque book facility. The
	Current & award and the charge of the contractions of the contraction of the contractions of the contraction of the contractions of the contraction of the c
	interest account holder should do monitain
and i	a milioner polare and is in
	this level a sold if the balance fally below
	this level, a service charge is imposed that a day
	trans to how to
	From this line has clayer cur-acct and sav-aut to make them
2.2	more specific to main tequirements, bould the necessary methods
70.75	is solar to ache or my francis
	a) Accept deposit from customer and lipdate the balance
	5) Zuptay tre bolance
	c) Compre and deposit Potent
	E) firmit withdrawal and update the balence.
_	(month in a unit of the penalty of necessary and uplay the but.
7	Import jaya. UTL. Scaner;
	clay Acoust &
A.	int granum;
/	
	String arctype;
	garph par.
	11 A. C. C. Control of allanger States . L. 11
7	public Account (Strong customorm, int account, string accorded)
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	try: acopen = acopen
	try. acctype - acctype;
77 mg	this balance = 0.0;
7	J. C. Land Co. Land C

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	Date	-7
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7	e e procession of the second second of the	
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	System out protes (Imaces agents	
	System out pout ("Update a balance ! " + balance)	
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-	System. oxt. phith ("Invalid deposit company").	
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100	class Saving extends Account ?	
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	Super (customnami, account , interstrate)	U CAN
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	turn of the state	
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	balana +2 1htrage;	
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	System with philip hoterest added in to heter by	
	5 ystem. out-pMh ("Updated balance"+ ball;	

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	if camt <= bal)
	me of sort Com men would have the little of the sort
100	bat = ant bal = bal - ant;
	Sout ("Amount withdrawn "4 comp);
	Sout ("Uplate bal" + bal);
	3 elpe 1 das ann mag
	sout ("Insuffer balan ");
	(m) 3 m m m m m m m m m m m m m m m m m
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	public Curtet C String Cymann, that account , double >
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	Super (custname, account, DD) il current 11)
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	Mai
	public withdraw (double ant) {
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	Bound don as in white is the world in the
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	public stooks with mais (striky 1) orgs)
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	11t choice = Scanner, next Int()
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	mint are num = 1 Scanner, mixt Mily 1200
	11 mode does to real
	if (Choran==1)Col ma modern) reger
	Sout (" Enter l'interest pate!);
	counte it = Scarner. Next Double;
- 4	SavAcct SI = new SavAct (name, acerum, Nr);
	to the experience of the first
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	double deposit = scaner. next double (1)
	SOV. ACC SOLD SI LIPSIT (diport)
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	Sarpo SI- compute and depositiones + (1)
	Sout ("Enter ant to withdraw");
	double withfrew = scarrer. Mext Double 213
	52. Limbran (windrewart);
	No. 1



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	(O.)
	Enter amount to deposit:
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4	10 10 10 10 10 10 10 10 10 10 10 10 10 1
6	
	Ages House the Name of
	more and your of the

```
import java.util.Scanner;
class Account {
     String customerName;
     int accountNumber;
     String accountType;
     double balance;
    public Account(String customerName, int accountNumber, String accountType) {
        this.customerName = customerName;
        this.accountNumber = accountNumber;
        this.accountType = accountType;
        this.balance = 0.0;
    }
    public void deposit(double amount) {
        if (amount > 0) {
            balance += amount;
            System.out.println("Amount deposited: " + amount);
            System.out.println("Updated balance: " + balance);
        } else {
            System.out.println("Invalid deposit amount!");
    }
    public void displayBalance() {
        System.out.println("Balance: " + balance);
    }
class SavAcct extends Account {
    private double interestRate;
    public SavAcct(String customerName, int accountNumber, double interestRate) {
        super(customerName, accountNumber, "Savings");
        this.interestRate = interestRate;
    }
    public void computeAndDepositInterest() {
        double interest = balance * (interestRate / 100);
        balance += interest;
        System.out.println("Interest added: " + interest);
        System.out.println("Updated balance: " + balance);
```

```
public void computeAndDepositInterest() {
        double interest = balance * (interestRate / 100);
        balance += interest;
       System.out.println("Interest added: " + interest);
        System.out.println("Updated balance: " + balance);
   public void withdraw(double amount) {
       if (amount <= balance) {</pre>
            balance -= amount;
            System.out.println("Amount withdrawn: " + amount);
            System.out.println("Updated balance: " + balance);
        } else {
            System.out.println("Insufficient balance!");
   }
class CurAcct extends Account {
  double minimumBalance;
   double serviceCharge;
   public CurAcct(String customerName, int accountNumber, double minimumBalance, double serviceCharge) {
        super(customerName, accountNumber, "Current");
        this.minimumBalance = minimumBalance;
        this.serviceCharge = serviceCharge;
   }
   public void withdraw(double amount) {
        if (amount <= balance) {
            balance -= amount;
            System.out.println("Amount withdrawn: " + amount);
            if (balance < minimumBalance) {</pre>
                imposePenalty();
            System.out.println("Updated balance: " + balance);
            System.out.println("Insufficient balance!");
   private void imposePenalty() {
        balance -= serviceCharge;
        System.out.println("Balance fell below minimum. Service charge imposed: " + serviceCharge);
```

```
private void imposePenalty() {
        balance -= serviceCharge;
        System.out.println("Balance fell below minimum. Service charge imposed: " + serviceCharge);
    }
}
public class bank {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Choose account type:\n1. Savings Account\n2. Current Account");
        int choice = scanner.nextInt();
        scanner.nextLine();
        System.out.println("Enter customer name: ");
        String name = scanner.nextLine();
        System.out.println("Enter account number: ");
        int accNum = scanner.nextInt();
        if (choice == 1) {
            System.out.println("Enter interest rate for savings account: ");
            double interestRate = scanner.nextDouble();
            SavAcct savAccount = new SavAcct(name, accNum, interestRate);
            System.out.println("Enter amount to deposit: ");
            double deposit = scanner.nextDouble();
            savAccount.deposit(deposit);
            savAccount.computeAndDepositInterest();
            System.out.println("Enter amount to withdraw: ");
            double withdrawAmount = scanner.nextDouble();
            savAccount.withdraw(withdrawAmount);
        } else if (choice == 2) {
            System.out.println("Enter minimum balance for current account: ");
            double minBalance = scanner.nextDouble();
            System.out.println("Enter service charge for falling below minimum balance: ");
            double serviceCharge = scanner.nextDouble();
            CurAcct curAccount = new CurAcct(name, accNum, minBalance, serviceCharge);
            System.out.println("Enter amount to deposit: ");
            double deposit = scanner.nextDouble();
            curAccount.deposit(deposit);
            System.out.println("Enter amount to withdraw: ");
            double withdrawAmount = scanner.nextDouble();
            curAccount.withdraw(withdrawAmount);
```

```
} else if (choice == 2) {
    System.out.println("Enter minimum balance for current account: ");
    double minBalance = scanner.nextDouble();
    System.out.println("Enter service charge for falling below minimum balance: ");
    double serviceCharge = scanner.nextDouble();
    CurAcct curAccount = new CurAcct(name, accNum, minBalance, serviceCharge);

    System.out.println("Enter amount to deposit: ");
    double deposit = scanner.nextDouble();
    curAccount.deposit(deposit);

    System.out.println("Enter amount to withdraw: ");
    double withdrawAmount = scanner.nextDouble();
    curAccount.withdraw(withdrawAmount);
} else {
    System.out.println("Invalid account type selected.");
}
```

```
C:\Users\shett\OneDrive\Documents\javaclasslab>javac bank.java
C:\Users\shett\OneDrive\Documents\javaclasslab>java bank
Choose account type:
1. Savings Account
2. Current Account
1
Enter customer name:
sanath
Enter account number:
123
Enter interest rate for savings account:
7.5
Enter amount to deposit:
45333
Amount deposited: 45333.0
Updated balance: 45333.0
Interest added: 3399.975
Updated balance: 48732.975
Enter amount to withdraw:
456
Amount withdrawn: 456.0
Updated balance: 48276.975
C:\Users\shett\OneDrive\Documents\javaclasslab>java bank
Choose account type:
1. Savings Account
2. Current Account
Enter customer name:
virat
Enter account number:
234
Enter minimum balance for current account:
1000
Enter service charge for falling below minimum balance:
100
Enter amount to deposit:
2000
Amount deposited: 2000.0
Updated balance: 2000.0
Enter amount to withdraw:
1500
Amount withdrawn: 1500.0
Balance fell below minimum. Service charge imposed: 100.0
Updated balance: 400.0
```