```
BANK
import java.util.Scanner;
class Account { private String
customer_name; private int
acc_no; protected double
balance;
  public Account(String customer_name, int acc_no, double balance) {
this.customer_name = customer_name;
    this.acc_no = acc_no;
this.balance = balance;
 }
  public double getBalance() {
return balance;
 }
  public void deposit(double amount) {
    if (amount > 0) {
balance += amount;
      System.out.println("Deposited: " + amount);
    } else {
      System.out.println("Deposit amount must be positive.");
   }
 }
 public void withdraw(double amount)
   if(amount<=getBalance()){
                                  balance-
=amount;
```

System.out.println("withdrew:"+amount + " balance is:"+ balance); }

```
else
     System.out.println("Insufficient funds!!");
  }
  public void displayBalance(){
    System.out.println("Current Balance: " + balance);
  }
}
class SavingsAccount extends Account {
private double interestRate;
  public SavingsAccount(String customerName, int accountNumber, double initialBalance, double
interestRate) {
                  super(customerName, accountNumber, initialBalance);
                                                                             this.interestRate =
interestRate;
  }
  public void computeAndDepositInterest() {
double interest = getBalance() * interestRate / 100;
deposit(interest);
  }
}
class CurrentAccount extends Account {
private
          double
                    minimumBalance;
private double serviceCharge;
  public CurrentAccount(String customerName, int accountNumber, double initialBalance, double
minimumBalance, double serviceCharge) { super(customerName, accountNumber,
initialBalance);
                   this.minimumBalance = minimumBalance;
                                                                 this.serviceCharge =
serviceCharge;
  }
```

```
public void checkMinimumBalance() {
  if (getBalance() < minimumBalance) {</pre>
      System.out.println("Balance is below minimum");
                                                              balance-
=serviceCharge;
      System.out.println("Deducted service charge:" +serviceCharge);
      System.out.println("Balance after deduction is:"+balance);
    }
 }
}
public class Bank {    public static void
main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.println("enter customer name:");
    String name=sc.nextLine();
System.out.println("enter accno:");
                                       int
acc_no=sc.nextInt();
    System.out.println("enter initial balance:");
double balance=sc.nextDouble();
    System.out.println("enter minimum balance:");
double minimum_balance=sc.nextDouble();
System.out.println("enter interest rate:");
                                             double
interest_rate=sc.nextDouble();
System.out.println("enter service charge:");
double service_charge=sc.nextDouble();
    System.out.println("Enter choice:\n 1.Current acc\n 2.Savings acc");
    int ch=sc.nextInt();
    System.out.println("Customer name is:"+ name+"\nAccount number:"+acc_no+"\nBhoomika
BG-1BM23CS067");
    switch(ch){
      case(1):
```

```
System.out.println("account is current type");
         CurrentAccount ca = new
CurrentAccount(name,acc_no,balance,minimum_balance,service_charge);
        do{ System.out.println("enter choice:\n 1.deposit\n 2.withdraw\n 3.display balance");
        int c=sc.nextInt();
        ca.checkMinimumBalance();
        if(c==1){
          System.out.println("enter amount to be deposited:");
double amt=sc.nextDouble();
           ca.deposit(amt);}
else if(c==2){
          System.out.println("enter amount to withdraw:");
double amt=sc.nextDouble();
                                       ca.withdraw(amt);}
else if(c==3){
                       ca.displayBalance();}
        else
         System.exit(0);
         }while(true);
     case(2):
         System.out.println("account is savings type");
        SavingsAccount sa=new SavingsAccount(name,acc_no,balance,interest_rate);
do{ System.out.println("enter choice:\n 1.deposit\n 2.withdraw\n 3.display balance");
        int c1=sc.nextInt();
if(c1==1){
          System.out.println("enter amount to be deposited:");
double amt=sc.nextDouble();
           sa.deposit(amt);}
        else if(c1==2){
          System.out.println("enter amount to withdraw:");
double amt=sc.nextDouble();
                                     sa.withdraw(amt);}
else if(c1==3){
```

```
sa.computeAndDepositInterest();
sa.displayBalance();}
            else{
              System.exit(0);
                }
            }while(true);
  }
}
C:\Users\Admin\Documents\23cs310>javac Bank.java
C:\Users\Admin\Documents\23cs310>java Bank
enter customer name:
Sharada
enter accno:
45982
 enter initial balance:
25000
 enter minimum balance:
5000
 enter interest rate:
 enter service charge:
100
 Enter choice:
  1.Current acc
2.Savings acc
 Customer name is:Sharada
Account number:45982
Sharada
 account is current type
 enter choice:
 1.deposit
2.withdraw
3.display balance
 enter amount to be deposited:
Deposited: 10000.0 enter choice:
  1.deposit
2.withdraw
3.display balance
 enter amount to withdraw:
 3000
 withdrew:3000.0 balance is:32000.0
 enter choice:
  1.deposit
  2.withdraw
3.display balance
Current Balance: 32000.0
```

```
C:\Users\Admin\Documents\23cs310>java Bank
enter customer name:
Sharada\
enter accno:
467382
enter initial balance:
24000
enter minimum balance:
5000
enter interest rate:
5
enter service charge:
100
Enter choice:
 1.Current acc
2.Savings acc
2
Customer name is:Sharada\
Account number:467382
Sharada
account is savings type enter choice:
 1.deposit
2.withdraw
 3.display balance
1
enter amount to be deposited:
Deposited: 2000.0 enter choice:
 1.deposit
2.withdraw
 3.display balance
enter amount to withdraw: 500
withdrew:500.0 balance is:25500.0
enter choice:
 1.deposit
 2.withdraw
 3.display balance
Deposited: 1275.0
Current Balance: 26775.0
```

PROGRAM 5	this balance = balance;
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bodop a Java program to create a class Bank that waint have kinds of accounts for its customers, one called sovery	The second of th
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withdrawpl facilities but no cheque book facilities. the	return balance;
current account praides cheque book facilities but	I the survey of the survey bear a wint
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uninimum balance and it the balance falls but	public voice deposit (double Amount) ?
this level a service charac & imposed create class on	if (amount 70) {
10. I kupe august. From this derive the class cur.	balance += amount;
Sav-acct to make them more specific to their requirement	S. O.P. ("Deposited:"+ amount);
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b) Display the balance.	3.0.1 c veposit amount must be positive
c) Compate and desposit interest	The second secon
If Permit withdrawn and update the balance	public void withdraw (double amount) {
	if (amount <= get Balance ()) }
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private int all no;	1 P. 1 ()S
protected double balance;}	public void display Balance ()?  S.O.P("Current balance" + balance);
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double initial falorate double interest Partil  This interest Pale : interest Pale !  Public world compute bad Depose theoret () f  double interest ;  depose (interest );  Itass current terount interest heaves;  proble double stories (harge;  public Current terount (string customer/Name, ind occurate dawks main balance, double services  Super Coustomer Name, account man, ind occurate dawks main balance;  public void current have;  public void clerctus polence () f  (] get Ralance () < mint balance ) f  S.O. P. ("Balance is below positioneme");  balance - Service Charge;  S.O. P. ("Balance is below positioneme");  balance - Service Charge;  S.O. P. ("Palance is below positioneme");	public class Bonk of  PSYM(string(2 args) of  Scanner Scinner (cystem in);  Sion? ('Enter custature name');  Stringname "scinnerthie();  Sio? ('Enter attac');  int access "scinerthie();  So? ('Enter attac');  double balance "Scinertholo);  double interest rate "Scinertholo);  So.P. ("Enter antinama balance");  double interest rate = scinertholo);  So.P. ("Enter arrive charge");  double service charge "Scinertholo);  So.P. ("Enter docreath current Archin  2 Savings Arch);  int eta = Scinertholo);  int eta = Scinertholo);  So.P. ("Interement name is "Luan  "In Account number" + ar  + "In Shreep");  Current Account is current type");  Current Account ca = new (urrent Account  (name, acc No., balance, min.

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The same of the sa	
Public Savings Account Cstring customorname, intallaunt Marin.	public class Bank &
double initial Bolonce double interst Rate IT	PENM (shine 13 oran) 3
Hais inkretPale = inkretRaki;	granner Sc = new granner ( cyslem in );
and and street of fortune the sale	3.0.7 ("futer austomer name");
Police of the second	Stringname = sc.nextline();
Public void compute And Deposit Elnarcel () ?	S.O.P ("curr auno");
double intrust = get Balance () * inversit late /100; deposit (interast);	int accino =sc. nertinic();
action crowthout;	308 ("eutr initial balance");
and the second s	double balance : Scinext Double();
The second section of the second section is	S.O.P. ("euler minimum balance"); double min Balance "Sc next Don Ve;
Class current become extends bugant f	S.O. P (" enter intrat rate")
private Jouble min Balance;	double interest rate = sc. next Double ();
Private double strice Charge;	CO.P. Hearty Service charas"):
	double service charge - Schext Bouble ():
public Current Account (string customerName, int accountly	S.O.P("Enter choice Int Current Acc In
dauble minbalance, double servicely	2 · Savings Acc );
Super Coutomor Name, account name, in it had Bobs	int on = sc. next (nt();
this min Balance = min Balance;	S.O.P("Lustoner name is" + name + "In Account number" + accino
this service Charge: Service Charge;	+"In shrey");
	Switch (ch) {
Public void clarekninfolance () f	(current Account is current type");
( ( get Balance () < min Balance) f S.O. P ("Balance is below minimum");	Corrent Account ca = new Current Account
balance - Service Charge;	(name, ace no, balance, min hala
S.O.P (" Deducked Service Charge:" + Service Charge	service (harge);
3.0.PC"Balance after deduction is:"+ Balance	do f S O. P ("ener chaice: In 1. oleposit In
3 Chamber Card Land at Constant	2. withdrawh
	3. display balance
	Maria de la companya del companya de la companya de la companya del companya de la companya de l

sa withdraw (amt); f int c: sc. next ( nt ( ); else if (c1 == 3) { if (c==1) f Sa. (ompute And Deposit Interest(); Sa. display Balance (); } S.O.P("enter amount to be deposited"); double aut = sc. nert Double (); Syerem · exit(0); ca. withdraw (aut); } eleif (c = = 3) { while (true); ca. display Balance (); 3 system exit (0); while (true); (ase (2): Output 3.0. ("attount is saving type"); savings that so new Saving trount euler customer hame: Shreya luter accno: 45982. ener withal balance: 25000 Chame, accue, balance, intrestrate dof euer min balance: 5000 S.O.P C'enter chaice: In 1. deposit In enur interest rate: 5 enter service charge 100 2. withdrawln 3. display Balance) tuler Choice: 1. Current acc 2. Savinga acc int (1 = ScnextInto); s.O.P. L'entry amt b be deposited"); double aust: sc. neit Double (); aceno: 4 5982 Sa. deposit (amt); account is current type else if (c1 == 2) } Eure choice I deposit S.O.P ("enter and to be withdrawn"); 2 withdraw double amt = Sc. next Double(); 3 display Balance enter aunt to be deposited 10000 Deposited 10000 enter ant to be withdrawn 3000 withdrew 3000 Current Balance is 32000

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obe if (c1 = 2)?

S.O.p('ether amount to be strated')

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she if it is not (); hatiraged at at trummo restrict Departed 10000 revolution of ot truema estra 3000 System ext(0). Withdrew 3000 3 while (true). Cuspont Balance is 32000 butout enter customer name Sharada enter accord: 45982 enter initial balance: 25000 ontes minimum balance: 5000 enter interest state: 5 enter source charge 100 entes choice : 1. Coosient acc 2 savings are customes name : Shoods account number: 45982 account is consent type enter choice 1 deposit aughter & 3 display balance