papergrid Section: 30 Date: 06/11/20 Botch: 2 5. Develop a Java program to create a class Bank that maintains 2 kinds of account for its customers, one called savings account and the other current account. The savings account provides compound interest & withdrawl facilities but no chique book facility. The coverent account provides cheque book facility but no interest. Current account holders should also maintain a minimum balance & if the balance falls below this level, a service charge is imposed. Create a class Account that stores customer name, account number and type of account From this, derive the classes Curr-acct and Say-acct to make them more specific to their requirements. Include the necessary methods in order to achieve the following tasks: · Accept deposit from customer & update the balance · Display the balance Challed some to · Compute & deposit interest · Permit withdrawl and update the balance · Check for minimum balance, impose penalty if necessary and uplate the balance import java util Scanner; classe Account makes " hat all the makes String cust name; the mandate int acc_num; String acc-type; double balance; and should some soul Scanner in = new Scanner (System.in); Account (String cust name, int according String accotype, double balance)

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```
this cust name = cust name;
    this acc-num = acc-num;
    this acc_type = acc_type;
    this balance = balance;
  void Customer()
     System. out. println ("The "+ this. acc-type +
        " status is: ");
  System. out. println ("Customer Name: 10+
    this cust name); no more
   System.out.println ("Account Number: "+
       this acc_num);
   System out println ("Account Type: "+
        this acc type); start oricovines with
  void Balance - Status () some in the same
     System. Out. println ("Balance Amount: "+
         this, balance);
  void Deposit()
     System. out. println ("Enter deposit amount:");
     double deposit = in. next Double ();
     balance += deposit;
class Savings extends Account
  double withdraw, deposit;
  int rate, time;
  double bal, cinterest;
```

```
Savings (String cust name, int acc-num, String acc-type,
    double balance) &
   super (cust_name, acc_num, acc_type, belance);
Scanner in = new Scanner (System.in);
void Compound - Interest ()
  System. out. println ("Compound Interest: ");
   System.out. println (" Enter rate of interest: ");
   rate = in.next Int();
System.out. println ("Enter time in years: ");
   time = in. next Int();
   bal = balance * Math. pow (1+ (rate * 0.01), time);
  Cinterest = bal - balance;

System.out.println ("Compound Interest is: " +
  cinterest);
  balance = bal;
void Withdraw ()
  System out println ("Enter the amount to be withdrawn!)
  withdraw = in.nextDouble();
  if (balance < withdraw)
     System. out. println ("Not enough balance.
         Cannot withdraw ");
      withdraw = 0.0;
  plse
      balance -= withdraw:
```

```
System. out println ("Amount withdrawn = "+
     withdraw);
class Coverent extends Account
  double withdraw, deposit;
  double min-balance = 5000.
  Scanner in = new Scanner (System. in)
  Current String cust-name, int acc-num, String acc-type
      double balance)
   super (cust_name, acc_num, acc_type, balance);
  void Withdraw()
    System, out println ("Enter the amount to be withdrawn:");
    withdraw = in. next Double();
     if (balance < withdraw)
       System.out.println ("Not enough balance.
      Cannot withdraw. ");
       withdraw = 0.0;
     else
       balance -= withdraw:
     System out println ("Amount withdrawn = "+
       withdraw);
  void Minimum_Balance()
```

```
if (balance < min balance)
       System. out println ("Since balance amount is
          less than the minimum balance, service
         charge of 500 is imposed. ");
       balance = balance - 500;
public class Bank
public static void main (String args[])=
     String cust name;
     int acc_num;
     int type;
     double balance;
     Scanner xx = new Scanner (System.in);
     System. out println ("Enter Customer Name: ");
     cust_name = xx.next();
     System out println ("Enter Account Number: ");
     acc_num = xx. next. Int();
     System out println ("Enter Account Type:");
     System. out. println ("1. Savings Account");
     System. out. println ("2. Current Account");
     type = xx.nextInt();
     if (type == 1)
        System. out. println ("Enter Balance amount:");
        balance = xx.next Int();
        Savings s = new Savings (cust-name, acc-num,
             "Savings", balance);
        s. Customer ();
```

	Date: / /
	s. Balance Status();
	s. Deposit ();
at div	S. Balance_Status();
25145	s. Withdraw();
	s. Balance - Status ();
	S. Compound-Interest();
	S. Customer();
	s. Balance-Status();
	}
	else if (type == 2)
	5
	System. out. println ("Enter Balance amount:
	balance = xx. next Int();
	Current c = new Current(cust_name, acc_nu
	"Currentace Appe, balance);
	c. Customer();
	c. Balance _ Status();
	c. Deposit();
. 18 -	c. Balance-Status();
	c. Withdraw ();
	c. Balance-Status();
	c. Minimum_Balance();
11/4	c. Customer ();
	c Balance - Status();
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	else
	1
	System.out.println ("Invalid choice");
	in manifest with the time of the time
	2
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	A STATE OF THE STA